

NEW COMMUNITY GARDEN INSTALLATION

CITY OF MORGAN HILL

15690 RAILROAD AVE., MORGAN HILL, CA 95037

SCOPE OF WORK

GENERAL PROJECT DESCRIPTION INCLUDES:

1. CONSTRUCTION OF NEW STORAGE BUILDINGS AND COMPOSTING TOILET RESTROOM.
2. EXTENSION OF WATER SERVICES FROM STREET
3. PARKING AND ACCESS TO NEW BUILDINGS
4. PLANTING BEDS AND DEMONSTRATION GARDEN
5. CHILDREN'S GARDEN AND PLAY AREA
6. LANDSCAPING AND IRRIGATION
7. CHAINLINK FENCE

SCOPE OF WORK FOR CONTRACTOR:

1. GRADE AND CLEAR SITE - AS SHOWN ON A0.2
2. CUT EDGE OF EXISTING AC ALONG FISHER AVE TO ADD BASE ROCK
3. INSTALL BASE ROCK IN MAIN PATHWAYS
4. INSTALL METAL DIVIDER STRIP AROUND ALL BED CONFIGURATIONS - FOR EXTENT SEE A1.1
5. DRILL HOLES FOR TREES TO BE PROVIDED BY OTHERS
6. CONNECT, TRENCH, AND INSTALL ALL MAIN WATER LINES FROM LATERAL IN RAILROAD RD. METER, BACKFLOW, & ALL LINES TO HOSE BIBBS, INCLUDING HOSE BIBB. ON A3.1 & IRRIGATION AS INDICATED ON L2.1 - SEE 2/L3.1 FOR EXTENT OF PIPE AT PLANTER BOX
7. DIG OUT DIRT & PLACE HOLDING TANK, PIPE, & RIVER ROCK PER 9/A2.2
8. PURCHASE AND INSTALL CLIVUS MULTRUM TOILET & COUNTER
9. INSTALL ALL ADA STRIPPING AND SIGNAGE
10. RE-WORK FENCING AND INSTALL NEW FENCE AND GATES AS REQUIRED - SEE A4.1 & FENCE @ PROJECT SOUTH PER A1.1
11. INSTALL DECOMPOSED GRANITE AS NOTED
12. GRADE UP TO PATHWAYS, SEE DETAIL 17/A1.3 OR SIMILAR DETAILS
13. INSTALL ADA PARKING STALLS, ADD SIGNAGE, STRIPPING, & TRUNCATED DOMES
14. INSTALL WALL - SEE 2/A4.1

SCOPE OF WORK FOR VOLUNTEERS/GARDENERS:

1. CONSTRUCT GARDEN BEDS AND SPREAD MULCH BETWEEN GARDEN BEDS, ALSO 4X4 POST & CONC. FOOTING SUPPORT FOR HOSE BIBBS
2. FILL BEDS WITH SOIL
3. PLANT ALL TREES
4. PROVIDE LABOR TO INSTALL DRIP IRRIGATION FOR TREES AND NON-VEGETABLE BED AREAS
5. BUILD AND INSTALL COMPOST BINS
6. RELOCATE BULLETIN BOARD STRUCTURE FROM <E> COMMUNITY GARDEN SITE
7. RELOCATE ORGANIC NOTICE SIGNS FROM <E> COMMUNITY GARDEN SITE
8. INSTALL COMMUNITY GARDEN SIGN FROM <E> COMMUNITY GARDEN SITE
9. INSTALL HOSE HANGERS PER 13/L3.1

SCOPE OF WORK FOR CITY:

1. PURCHASE WOOD AND SOIL FOR GARDEN BEDS
2. PROVIDE PERIMETER TREES
3. PROVIDE AND INSTALL TUFF SHEDS, AB BASE & METAL DIVIDER - SEE NOTE #6 ON A1.2
4. PROVIDE MULCH AND SET IN PLACE
5. PURCHASE PICNIC TABLES
6. CLASS 2 & METAL DIVIDER TO BE COMPLETED PRIOR TO CONTRACTOR COMMENCEMENT OF WORK

NOTES: ALT #1: REPLACE 375' OF <E> FENCE/FOOTING ALONG RAILROAD WITH (N) CHAIN LINK FENCE & FOOTING
ALT #2: CONSTRUCT ADA PLANTING BEDS

BUILDING & SITE DATA

SYMBOLS

• DESCRIBES AN "AREA" OR "FIELD"

RM NAME ROOM NAME
101 ROOM NUMBER

ELEVATION
Elevation Reference Number
1
A3.1 Sheet Number when shown

SECTION
Section Reference Number
1
A4.1 Sheet Number when shown

ROOM ELEVATION
Detail Reference Number
4
A5.1 Elevation Reference Number
2 Sheet Number where shown

TYPICAL DETAIL
Detail Reference Number
1
A7.1 Sheet Number where shown

PHOTO REFERENCE
Direction Indicator
1
A1.1 Detail Reference Number
Sheet Number where shown

TYPICAL COLUMN or SHEAR LINE
Column or Shear Line Designation
A Center Line of Column or Shear Wall

TRUE NORTH
PROJECT NORTH
NORTH ARROW

SHEET LEGEND

ARCHITECTURAL	A0.1	TITLE SHEET
CIVIL	NONE	
ARCHITECTURAL		
A0.2	SITE DEMOLITION	
A1.1	OVERALL SITE PLAN	
A1.2	PARTIAL SITE PLAN	
A1.3	SITE DETAILS	
A2.0	RESTROOM DETAILS	
A2.1	RESTROOM DETAILS	
A2.2	ROOF FRAMING, FOUNDATION, & HOLDING TANK DETAILS	
A3.1	PLUMBING PLAN	
A4.1	FENCING PLAN	
A4.2	METAL EDGING PLAN	
LANDSCAPE		
L1.1	LANDSCAPE PLAN - FOR REFERENCE ONLY	
L2.1	IRRIGATION PLAN - FOR REFERENCE ONLY	
L3.1	LANDSCAPE DETAILS	

CONTACTS

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LANDSCAPE	WESTON MILES ARCHITECTS, INC. 17500 DEPOT STREET, SUITE #200 MORGAN HILL, CA 95037 ATTN: LESLEY MILES, A.I.A. PHONE: 1-408-779-6686 EMAIL: LESLEY@WMARCHITECTS.COM

ABBREVIATIONS

ABV	above	DSA	division of the state architect	INCL	include (d), (ing)	RAD	radius
AFZ	above finished floor	DR	door	ID	inside diameter	RWL	rainwater leader
ACFL	access floor	DA	double acting	INT	interior	REF	reference
AP	access panel	DH	double hung	INV	invert	RFL	reflect (d), (ing)
ACPL	acoustical plaster	DF	douglas fir	IPS	iron pipe size	REFR	refrigerator
ACT	acoustical tile	DBL PLT	double plate	INCAN	incandescent	REG	register
ACR	acrylic plastic	D	drain	ISA	international sign association	RCP	reinforced conc pipe
ADD	addendum	DRB	drainboard	JC	janitor's closet	REM	remove
ADH	adhesive	DWR	drawer	JT	joint	RES	resilient
ADJ	adjacent	DWG	drawing	JF	joint filler	RET	return air
				J	joist	RVS	reverse (side)
AGG	aggregate	EF	each face	KPL	kickplate	REV	revision (s), revised
A/C	air conditioning	ER	eave rafter	KIT	kitchen	RH	right hand
ALT	alternate	ELEC	electric (al)	KD	knock down	ROW	right-of-way
ALUM	aluminum	EP	electrical panelboard			R	riser
ADA	american disability assoc.	EWC	electric water cooler			RD	roof drain
ANC	anchor, anchorage	ELEV	elevation			RFH	role hatch
AB	anchor bolt	EMB	elevator			RR	roof rafter
ANOD	anodized	EMER	embedment			RM	room
ARCH	architect (ural)	EMT	emergency electrical metallic tubing			RO	rough opening
AD	area drain	ENC	enclose (ure)			RB	rubber base
AC	asphalt concrete	EQ	equal			RBT	rubber tile
AT	asphalt tile	EQP	equipment				
APN	assessor parcel map	L	length			SGFL	safety glass
AUTO	automatic	LT	light			SCCOE	santa clara county office of education
@	&	EXCA	excavate			SCH	schedule
		EXH	exhaust			SCD	see civil drawings
BA	bath	EXP	expanded metal plate			SSD	see structural drawings
BP	building paper	EB	expansion bolt			SMD	see mechanical drawings
BSMT	basement	EKT	exposed			SEC	see electrical drawings
BRG	bearing	EKS	extra strong			SECT	sections
BPL	bearing plate	EA	each			SHTH	sheathing
BM	bench mark	EW	each way			SHT	sheet
BLW	below					SH	shelf, shelving
BETW	between					SH	similar
BIT	bituminous					SIM	solid block
BLK	block					SC	solid core
BLKG	blocking					SP	soundproof
BD	board					SPC	spacer
BS	both sides					SPK	speaker
BW	both ways					SPEC	specification (s)
BOT	bottom					SQ	square
BRK	brick					SST	stainless steel
BRZ	bronze					STD	standard
BLDG	building					STA	station
BUR	built-up roofing					STO	storage
						SD	storm drain
CAB	cabinet					STR	structural
CAD	cadmium					SCT	structural clay tile
CBC	california building code					SUS	suspended
CPT	carpet (ed)					SYM	symmetry (ical)
CSMT	casement					STC	sound transmission class
CI	cast iron						
CIPC	cast-in-place concrete					NL	naillable
CST	cast stone					NAT	natural
FLX	flexible					(N)	new
CK	caulk (ing)					NRC	noise reduction coefficient
CLG	ceiling					NOM	nominal
CHT	ceiling height					NIC	not in contract
CJ	ceiling joist					NTS	not to scale
CEM	cement						
CL	chain link fence					OBS	obscure
CER	ceramic					OC	on center (s)
CT	ceramic tile					OPG	opening
CMT	ceramic mosaic (tile)					OPH	opposite by others
CHBD	chalkboard					OD	outside diameter
CHAM	chamfer					OA	overall
CIR	circle					OH	overhead
CIRC	circumference					O/	over
CLR	clear (ance)						
CO	clean out					PNT	paint (ed)
CLS	closure					PNL	panel
CHPS	collaborative for high performance schools					PB	panic bar
						PTD	paper towel dispenser
COL	combination					PTR	paper towel receptor
COMPT	compartment					PAR	parallel
COMPO	composition (composite)					PK	parking
COMP	compress (ed), (ion), (ible)					PBD	particle board
CONC	concrete					PTN	partition
CHU	concrete masonry unit					POT	path of travel
CONST	construction					PV	pave (d), (ing)
CONT	continue (ous)					PVMT	pavement
CONTR	contract (or)					PED	pedestal
CJ	control joint					PERF	perforate (d)
CNTR	copper					PERIM	perimeter
CG	corner guard					PLAS	plaster
CORR	corrugated					PLAM	plastic laminate
CTR	counter					PLT	plate
CFL	counterflashing					PG	plate glass
CRS	course (s)					PLWD	plywood
CRG	cross grain					PVC	polyvinylchloride
CFT	cubic foot					PSF	pounds per square foot
CYD	cubic yard					PCC	precast concrete
€	center line					FFN	prefinished
CP	cement plaster					PRF	preformed
						PFMG	pre-formed metal gutter
DPR	damp proofing					PTN	project tracking number
DENO	demolish, demolition					€	property line, plate
DMT	demountable					QT	quarry tile
DEP	depressed						
DTL	detail						
DIA	diameter						
DIM	dimension						
DPR	dispenser						
DIV	division						

CODE COMPLIANCE

ALL WORK & MATERIAL SHALL BE PERFORMED & INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS ADOPTED AND AMENDED BY THE GOVERNING JURISDICTION. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CALIFORNIA CODES. EFFECTIVE JANUARY 1, 2016

2016 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 CCR

2016 CALIFORNIA BLDG CODE (CBC), PART 2, TITLE 24, CCR (2012 INTERNATIONAL BLDG CODE VOL. 1-2 AND 2013 AMENDMENTS)

2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR (2011 NATIONAL ELECTRICAL CODE AND 2013 CA AMENDMENTS)

2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR (2012 UNIFORM MECHANICAL CODE AND 2013 CA AMENDMENTS)

2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR (2012 UNIFORM PLUMBING CODE AND 2013 CA AMENDMENTS)

2016 CALIFORNIA ENERGY CODE (CenC), PART 6, TITLE 24 CCR

2016 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR (2012 INTERNATIONAL FIRE CODE AND 2013 CA AMENDMENTS)

2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 CCR

2016 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 CCR.

TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS

2010 AMERICANS W/DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN

2016 NFPA 13, INSTALLATION OF AUTOMATIC SPRINKLER SYST. (CA AMENDED)

2013 NFPA 14, INSTALLATION OF STANDPIPE & HOLD SYSTEMS (CA AMENDED)

2013 NFPA 17, DRY CHEMICAL EXTINGUISHING SYSTEMS

2013 NFPA 17A, WET CHEMICAL EXTINGUISHING SYSTEMS

2016 NFPA 20, INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION

2013 NFPA 22, WATER TANKS FOR PRIVATE FIRE PROTECTION

2016 NFPA 24, INSTALLATION OF PRIVATE FIRE SERVICE MAINS & THEIR APPURTENANCES (CA EDITION)

2013 NFPA 25, INSPECTION, TESTING, MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS (CA AMENDED)

2013 NFPA 72, NATIONAL FIRE ALARM CODE (CA AMENDED; SEE UL STD 1071 FOR "VISUAL DEVICES")

2013 NFPA 80, FIRE DOORS AND OTHER OPENING PROTECTIVES

2013 NFPA 110, EMERGENCY AND STANDBY POWER SYSTEMS

2012 NFPA 170, STANDARD FOR FIRE SAFETY & EMERGENCY SYMBOLS

2012 NFPA 2001, CLEAN AGENT FIRE EXTINGUISHING SYSTEMS

SFM 12-10-1, POWER OPERATED EXIT DOORS

SFM 12-10-2, SINGLE POINT LATCHING OR LOCKING DEVICES

SFM 12-10-3, EMERGENCY EXIT & PANIC HARDWARE

UL 38, MANUAL OPERATING SIGNAL BOXES (2008 EDITION)

UL 268, SMOKE DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS (2009 EDITION)

UL 268A, SMOKE DETECTORS DUCT APPLICATIONS (2008 EDITION)

UL 300, FIRE TESTING OF FIRE EXTINGUISHING SYST. FOR PROTECTION OF RESTAURANT COOKING AREAS (2005 EDITION)

UL 305, PANIC HARDWARE (2012 EDITION)

UL 464, AUDIBLE SIGNAL APPLICATIONS (2009 EDITION)

UL 521, HEAT DETECTORS FOR FIRE PREVENTING SIGNALING SYSTEM (1999 EDITION)

UL 864, CONTROL UNITS FOR FIRE PROTECTIVE SIGNALING SYSTEMS (2003 EDITION WITH REVISIONS THROUGH JULY 14, 2005)

CCR TITLE 8, DIVISION 1, CHAPTER 4, SUBCHAPTER 6, ELEVATOR SAFETY ORDERS, COMMENCING WITH SECTION 3094.2.

ASME A17.1 - 2007 (W/A17.1A/CSA B44A-08 ADDENDA) SAFETY CODE FOR ELEVATORS AND ESCALATORS.

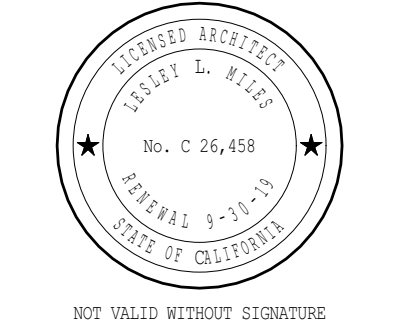
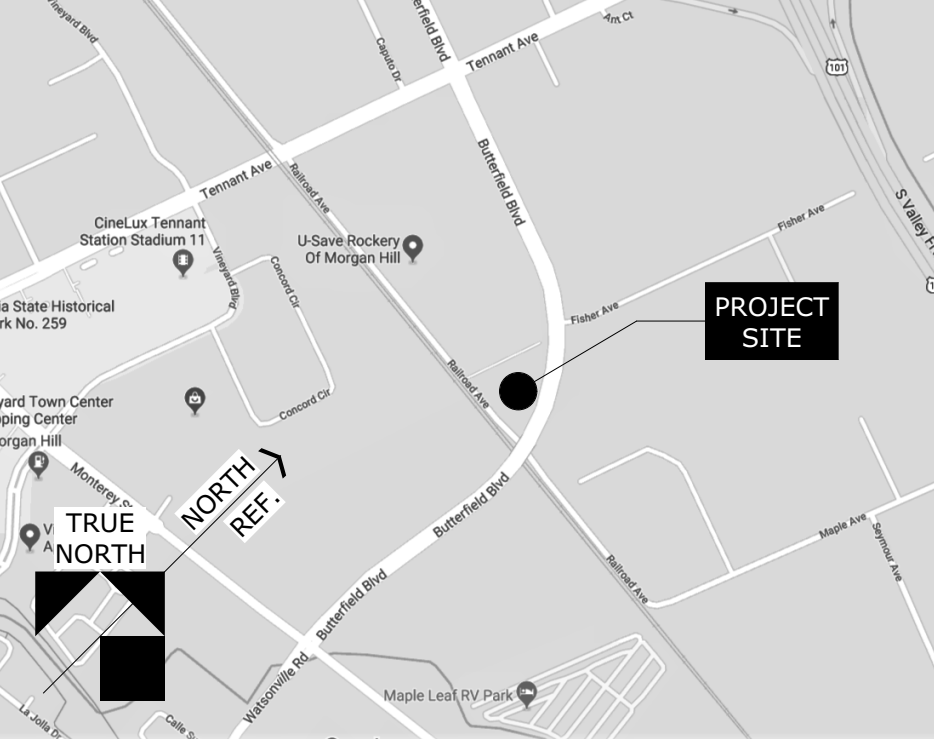
ASME A18.1 - 2003, SAFETY STANDARD FOR PLATFORM LIFTS AND STAIRWAY CHAIRLIFTS, COMMENCING WITH SECTION 2.

ICC 300-2012 STANDARD FOR BLEACHERS, FOLDING AND TELESPOIC SEATING AND GRANDSTANDS

COMPLIANCE WITH CFC CHAPTER 33 "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION" WILL BE ENFORCED.

EMERGENCY VEHICLE ACCESS ROADS AND ON SITE FIRE HYDRANTS SHALL BE IN SERVICE AND OPERABLE PRIOR TO LOADING THE SITE WITH COMBUSTABLE MATERIALS.

VICINITY MAP



REVISIONS



TITLE SHEET
NEW COMMUNITY GARDEN INSTALLATION
CITY OF MORGAN HILL
15690 RAILROAD AVE., MORGAN HILL, CA 95037

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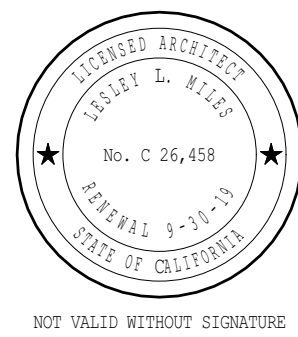
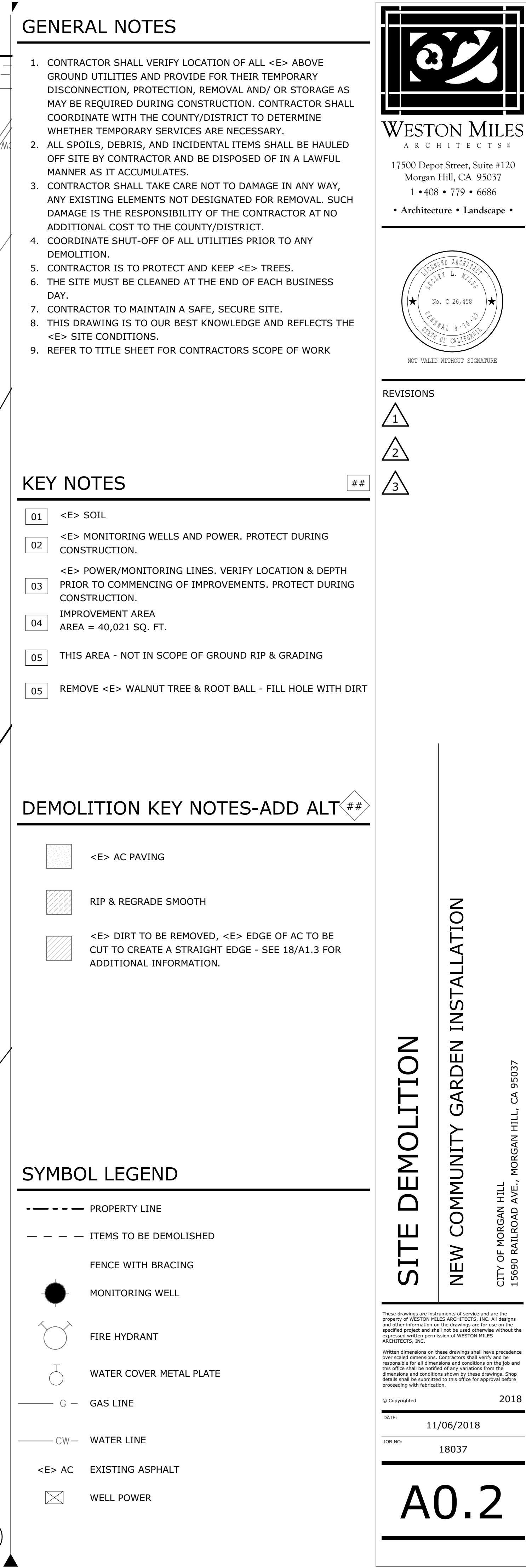
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DATE: 11/06/2018

JOB NO: 18037

A0.1






Three triangles are stacked vertically, labeled 1, 2, and 3 from top to bottom.

##

- | | |
|----|---|
| 01 | <E> SOIL |
| 02 | <E> MONITORING WELLS AND POWER. PROTECT DURING CONSTRUCTION. |
| 03 | <E> POWER/MONITORING LINES. VERIFY LOCATION & DEPTH PRIOR TO COMMENCING OF IMPROVEMENTS. PROTECT DURING CONSTRUCTION. |
| 04 | IMPROVEMENT AREA
AREA = 40,021 SQ. FT. |
| 05 | THIS AREA - NOT IN SCOPE OF GROUND RIP & GRADING |
| 05 | REMOVE <E> WALNUT TREE & ROOT BALL - FILL HOLE WITH DIRT |

##

- | | |
|---|--|
|  | <E> AC PAVING |
|  | RIP & REGRADE SMOOTH |
|  | <E> DIRT TO BE REMOVED, <E> EDGE OF AC TO BE CUT TO CREATE A STRAIGHT EDGE - SEE 18/A1.3 FOR ADDITIONAL INFORMATION. |

---	PROPERTY LINE
- - - -	ITEMS TO BE DEMOLISHED
	FENCE WITH BRACING
●	MONITORING WELL
⊕	FIRE HYDRANT
⊙	WATER COVER METAL PLATE
— G —	GAS LINE
— CW —	WATER LINE
<E> AC	EXISTING ASPHALT
⊗	WELL POWER

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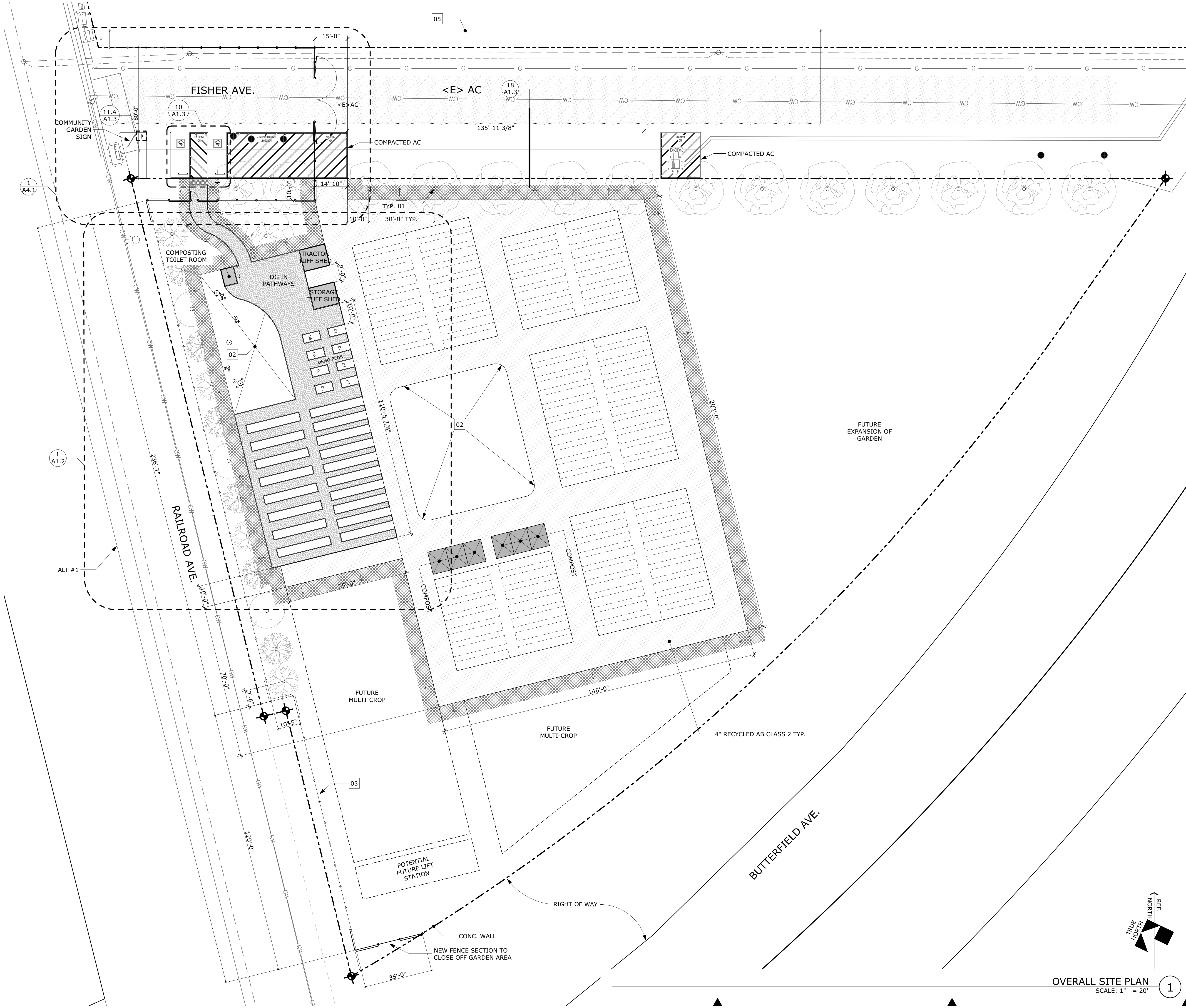
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A0.2



GENERAL NOTES

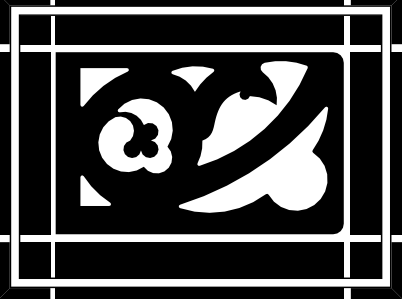
- ENSURE MONITORING WELLS AND POWER IS MAINTAINED THROUGHOUT SITE
- REFER TO TITLE SHEET FOR CONTRACTORS SCOPE OF WORK

KEY NOTES

- | # | NOTES |
|----|---|
| 01 | CONTRACTOR TO DRILL 18" DIA. X 3'-0" HOLES, TREES PROVIDED BY OTHERS. PLACE 3/4" PCS. PLYWOOD OVER HOLES UNTIL TREES ARE PLANTED. |
| 02 | PORTION OF SOIL TO BE LEVEL WITH DECOMPOSED GRANITE OR AB |
| 03 | ALT. # 1, <E> FENCE REMOVE AND REPLACE W/ 6' CHAIN LINK FENCE. |
| 04 | FOR METAL EDGING EXTENT & DIMENSIONS - SEE A4.2 |
| 05 | 6" <E> AC CUT EXTENTS |

SYMBOL LEGEND

- | | |
|--|--|
| | PROPERTY LINE |
| | ITEMS TO BE DEMOLISHED |
| | FENCE WITH BRACING |
| | MONITORING WELL |
| | FIRE HYDRANT |
| | WATER |
| | GAS LINE |
| | WATER LINE |
| | EXISTING ASPHALT |
| | WELL POWER |
| | RECYCLED CLASS 2 AB-GREEN SUPPLY OR EQUAL IN PASS TYP. |
| | DECOMPOSED GRANITE |
| | PORTION OF SOIL TO BE SLOPED, SEE 17/A1.3 |



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REVISIONS

- | # | REVISIONS |
|---|-----------|
| 1 | |
| 2 | |
| 3 | |

OVERALL SITE PLAN

NEW COMMUNITY GARDEN INSTALLATION

CITY OF MORGAN HILL
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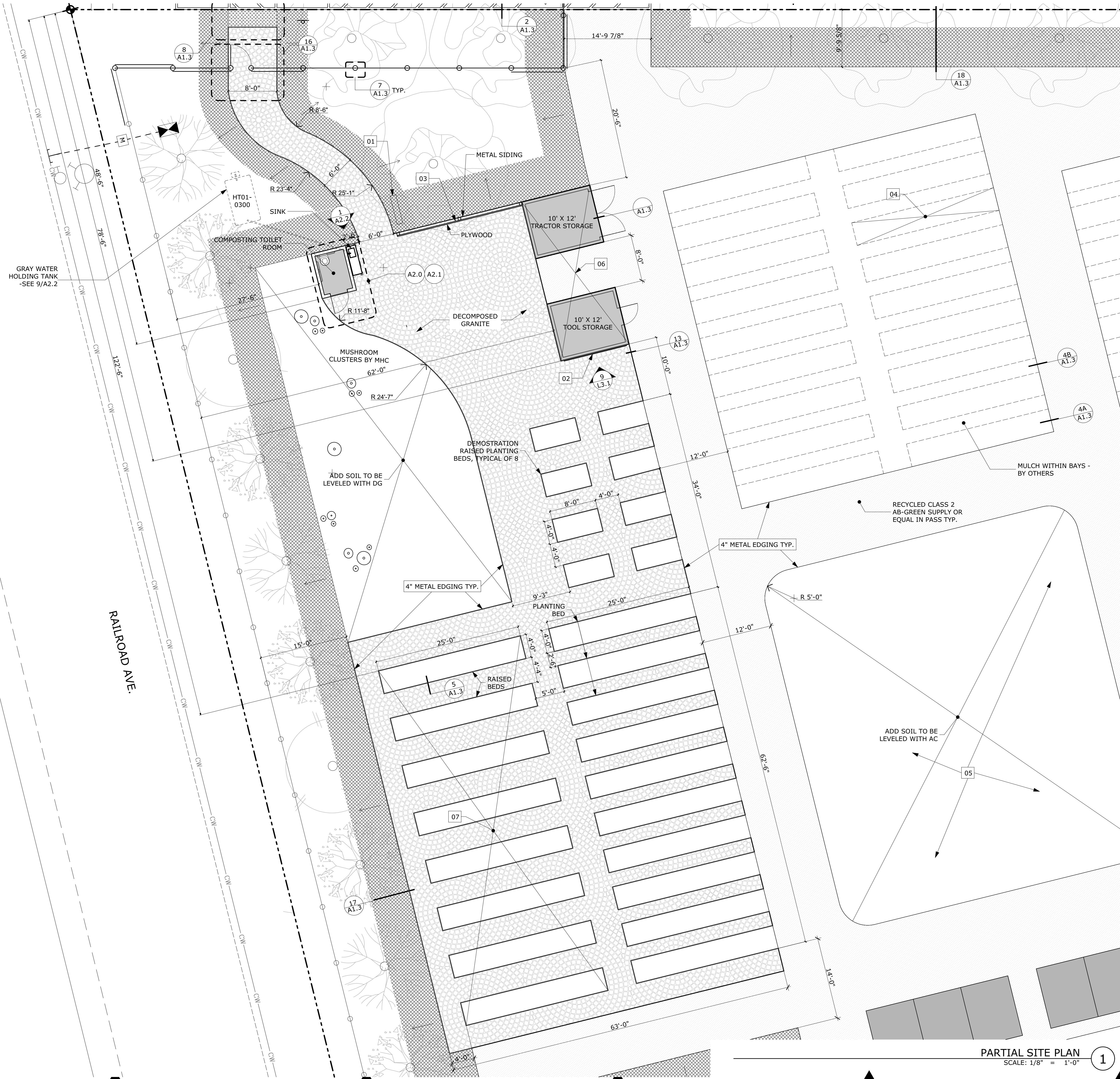
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A1.1



GENERAL NOTES

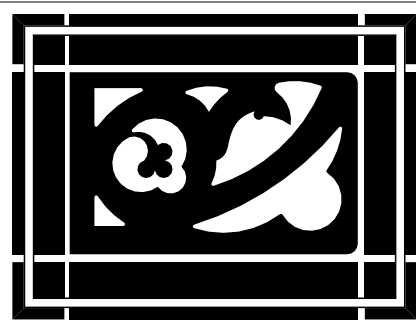
1. REFER TO TITLE SHEET FOR CONTRACTORS SCOPE OF WORK

KEY NOTES

- 01 BULLETIN SIGN MOVED BY OTHERS
- 02 HOSE HANGER PER 13/L3.1
- 03 7" HIGH WALL - SEE 2/A4.1
- 04 RAISED PLANTER BED - SEE SCOPE OF WORK FOR VOLUNTEERS /GARDENERS NOTE # 1/A0.1 TYP.
- 05 GARDEN CONCRETE WHEEL, PATHS, & POLLINATOR BEDS - NOT IN SCOPE OF WORK
- 06 CITY OF MORGAN HILL TO INSTALL TUFF SHEDS, METAL EDGING, ALL 4 SIDES & AB BASE - PRIOR TO CONTRACTOR COMMENCEMENT OF WORK
- 07 ACCESSIBLE (ADA) PLANTERS - SEE 5/A1.3

SYMBOL LEGEND

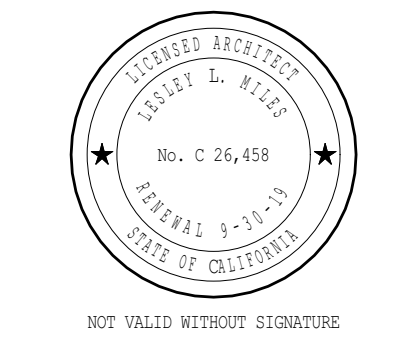
- PROPERTY LINE
- - - ITEMS TO BE DEMOLISHED
- FENCE WITH BRACING
- MONITORING WELL
- FIRE HYDRANT
- WATER
- G — GAS LINE
- CW — WATER LINE
- RECYCLED CLASS 2 AB-GREEN SUPPLY OR EQUAL IN PASS TYP.
- DECOMPOSED GRANITE
- PORTION OF ADDED SOIL TO BE SLOPED, SEE 17/A1.3



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• Architecture • Landscape •



REVISIONS

- 1
- 2
- 3

PARTIAL SITE PLAN

NEW COMMUNITY GARDEN INSTALLATION

CITY OF MORGAN HILL
15690 RAILROAD AVE., MORGAN HILL, CA 95037

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A1.2

Installation and Assembly Instructions (continued)

Set Door Wall

Run a bead of construction cement on the two door wall floor sill plates. Tilt the door wall panel into place on top of the sill plates. Hold door wall in place. From the side of the building, measure 2-1/2" and insert 6" screws through exterior OSB and into the window wall panel at 12" on center (Figure 7).

Set Angled 2"x6"x92"

Run a bead of construction cement in the opening at the top of the side walls. Set the angled 2"x6"x92" inside the opening at the top of the side walls for making the roof attachment. Attach from outside using 8d nails 6" on center. Repeat inside building using white nails.

Position the Roof

Place one of the roof panels on top of the building, lining up markings on the edges of the roof with the window and door wall panels (shorter overhang in rear). See Figure 12. Secure the roof panel at the peak. Using 6" screws, secure both roof panels to the front, rear and side walls every 12" on center within the guideline markings on the roof panels. **Note: be sure to establish the proper angle for the 6" screw penetration into the opposite roof panel.** At the peak, insert 6" screws through the OSB and roof panel 2"x6" and into the opposite roof panel 2"x6" (Figure 11). Continue every 12" on center at the peak.

Fasten Panels

Measure 3/4" above the floor and insert 16d nails, passing through exterior OSB and 2"x4" floor sill (Figure 12). Repeat 12" on center around the building as needed. Repeat inside building using painted nails. Measure 3/4" below the roof and insert 16d nails, passing through exterior

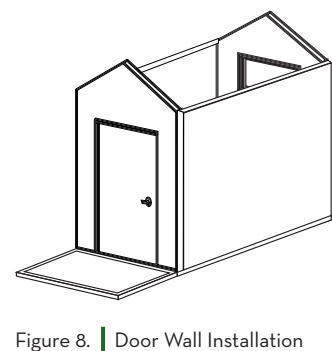


Figure 8 | Door Wall Installation

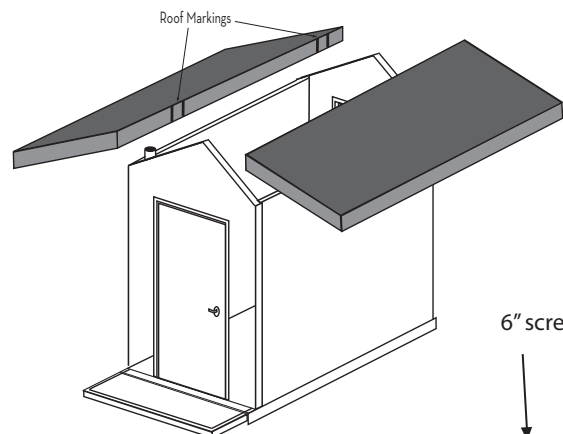


Figure 9 | Position the Roof

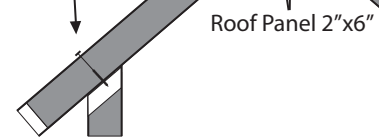


Figure 10 | Fasten the Roof

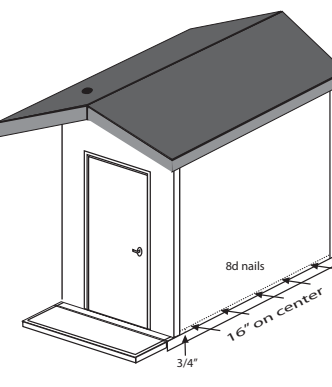


Figure 11 | Fasten Panels - Bottom & Top Edges

Installation and Assembly Instructions

Set Composter Base

Excavate Hole for Base

Dig a hole approximately 9' (W) X 12' (L) X 5' (D) deep. Level the hole with the transit. Add about 80 cubic feet of crushed stone into the hole and level again. The maximum finish depth of the hole is 40". This will allow 2" of the plastic tank to be above grade and avoid rainwater intrusion.

Clivus recommends a drain-to-daylight to avoid upward pressure on the compost tank from ground water or run-off. This should be created now.

Place Composter Base

Place the M54W Composter Base with the Liquid End-Product Removal Port at the front on the leveled bottom of the hole. Check with the 4' or 6' level. Add or remove soil or stone until the Base is level.

Note: The top lip of the Composter Base should extend at least 2" above grade to avoid rainwater intrusion.

Place Anchors (for wind-loading)

Place anchors in bottom of hole as shown in Figure 2. Feed one end of wire rope through the center hole and back up through center hole, and secure using two wire rope clips. Feed other end of wire rope through eye-bolt and secure using two wire rope clips. Drive two stakes through any of the four holes in the anchors.

Backfill Around Base

Begin backfilling with remaining crushed stone and complete with soil. Compact the fill vertically rather than against the sides of the Base.

Add Starter Bed

Add the three bales of planer shavings to the Composter Base (supplied with unit). Rake out the starter bed evenly. Do not use Redwood, Cedar, other aromatic woods or treated lumber.

Distribute 20 gallons of water throughout the Base. Allow it to soak into and drain through the starter bed material. Pump the excess water out of the Liquid Storage Chamber and redistribute the starter bed material if it has become dislodged.

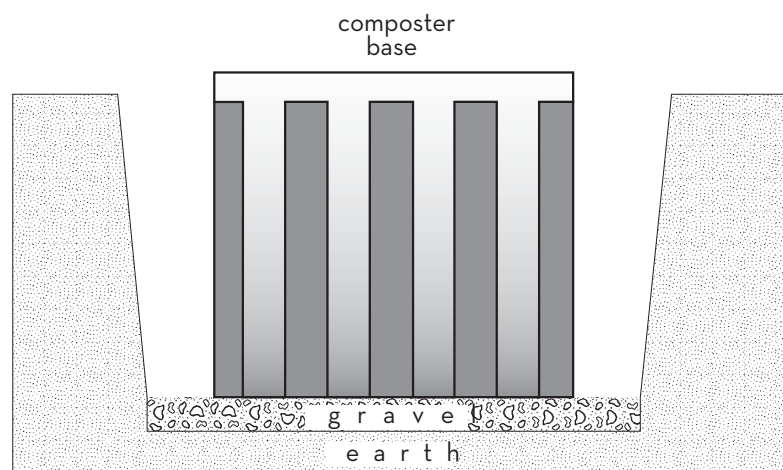


Figure 1 | Excavated Hole

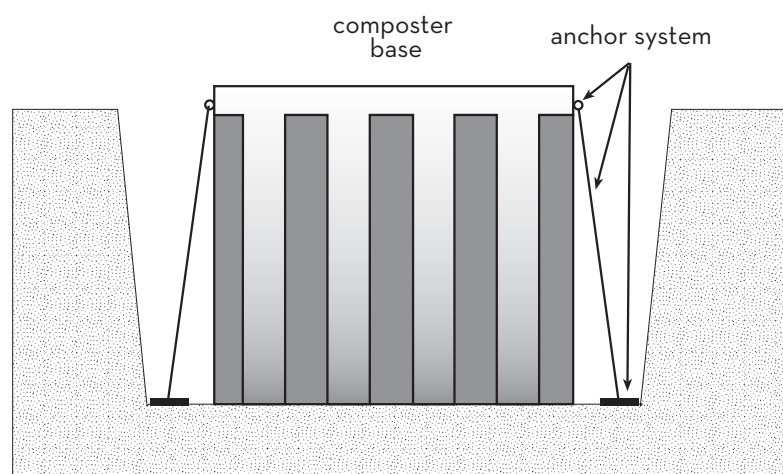


Figure 2 | Anchor System

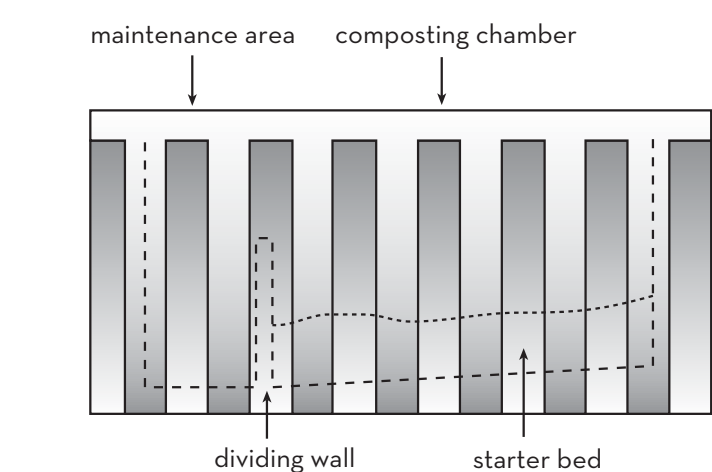
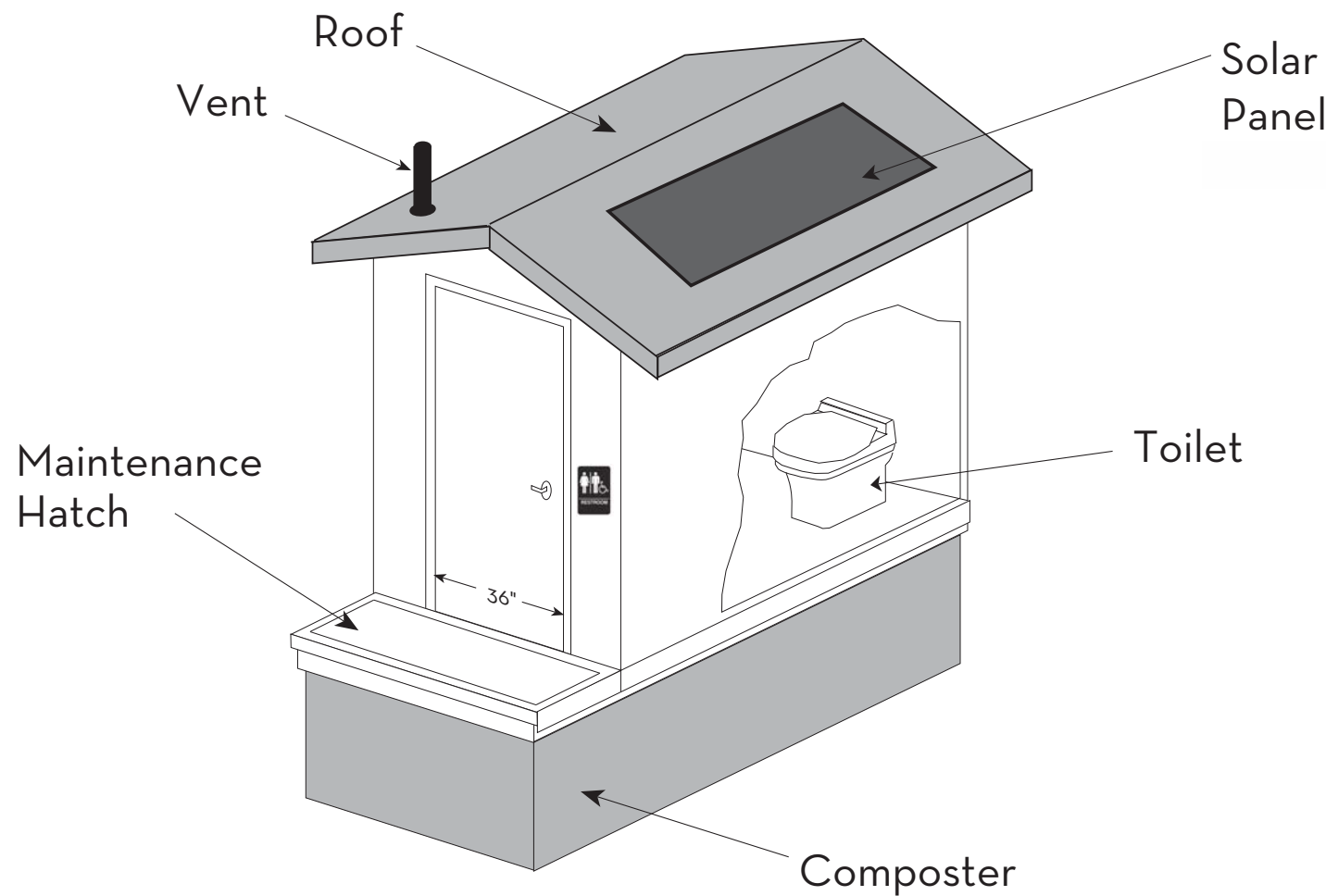


Figure 3 | Adding Starter Material

Typical Configuration



Installation and Assembly Instructions (continued)

Erect Building

Place Floor Panel

Center the floor panel over the compost tank, with the access hatch over the front of the tank. Line up the steel fittings on the tank and the floor so that the holes will receive the 2" bolt that secures the floor to the tank. Tighten the bolts with the nuts and washers provided.

Set Window Wall

Run a 5/8" bead of construction cement on the top of the sill plate that will receive the window wall. Slide the window wall panel onto the sill, centering it across the rear of the floor (white FRP finish faces inside of building). From exterior OSB, drive 8d nails 3/4" above floor sill every 6" on center.

Set Side Walls

Run a 5/8" bead of construction cement on the center of the floor sill on one side of the building. Place a 92" wall panel on the sill (white FRP finish faces inside of building). The ends of the side wall panels will be flush with the outside surface of the front and rear panels. From the side of the building, measure 2-1/2" and insert 6" screws through exterior OSB into the window wall panel at 12" on-center (Figure 7).

Repeat for other side.

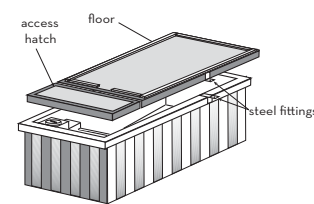


Figure 4 | Floor Panel Installation

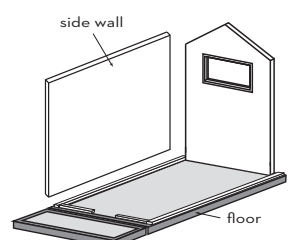


Figure 6 | Side Wall Installation

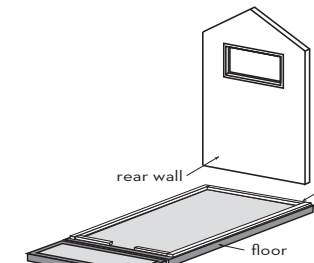


Figure 5 | Window Wall Installation

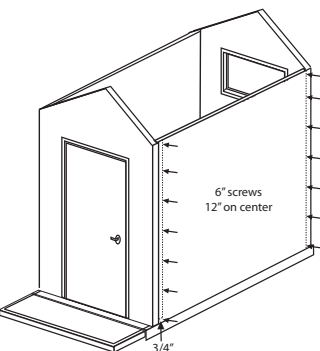
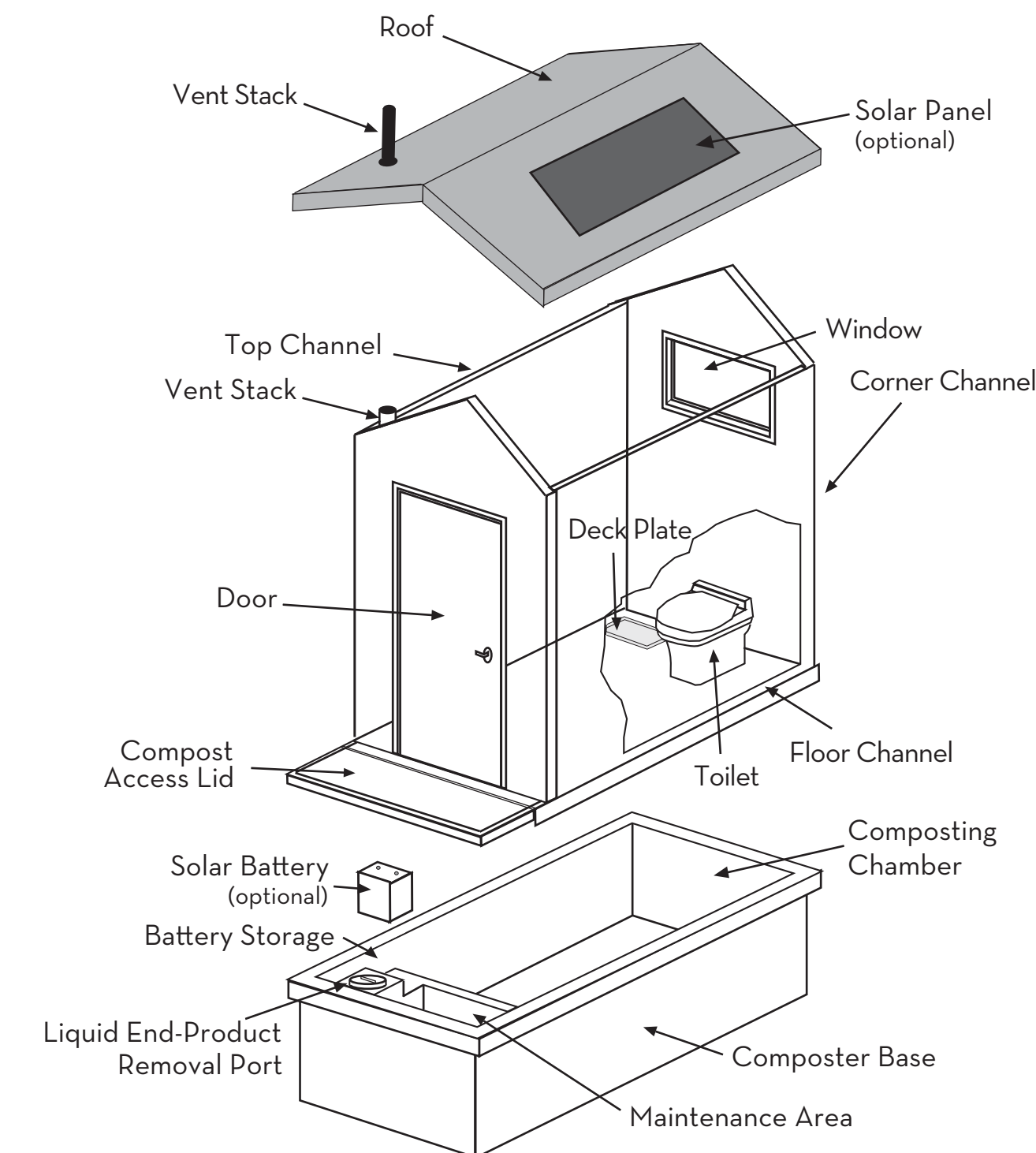


Figure 7 | Fasten Panels - Corners

Exploded View



Introduction

Welcome

Congratulations on your purchase of a Clivus Multrum Composting Toilet System. You have purchased a system that represents the leading edge in composting technology today. Clivus composters are manufactured to be efficient, durable and easy to maintain. With proper installation and regular maintenance the Clivus compost system will give you years of trouble-free service.

The M54W Composter can be installed by anyone with basic carpentry skills. However, it is recommended that the services of a licensed plumber and electrician be obtained, as required by state or local codes, for plumbing and electrical hook-ups. The basic tools and materials required are listed in the instructions. The average installation time is approximately 48-60 worker-hours for each M54W unit.

If you have any questions, please contact your local representative or Clivus Multrum, Inc.

Before Starting

Read all instructions before assembly.

Three people (minimum) are needed to assemble the M545W Trailhead.

Composter Location

The M54W should be located in an area where there is no possibility of ground water or other sources of upward pressure on the unit. If there is the possibility that pressure will be exerted, Clivus recommends a drain to daylight. Also, the M54W should not be located in expansive soils, such as clay.

The M54W Composter Base may be fully buried for ground level access, partially buried, or it may rest on the surface. ADA access requires a platform in front of the door and a ramp if the building is not at ground level. Tie-downs may be needed to meet wind loadings.

Locate the M54W so that either side of the restroom faces magnetic south. The

solar panel must be on the south side of the roof with 120° of unobstructed sunshine to function properly (no trees shading the south side of the roof for most of the day).

Receiving the Shipment

Check for Damage

Examine the Clivus compost system and its contents carefully for evidence of damage or rough handling.

Minor Damage: Do not sign the shipping receipt until the carrier has noted the damage on the Bill of Lading.

Significant damage: DO NOT SIGN the shipping receipt. Refuse the shipment and immediately call Clivus Multrum, Inc. at 1-800-425-4887.

Check Parts Immediately

Most of the Clivus system components are packed inside the compost for shipping. If the shipment is accepted, immediately cut the strapping, open the package, and remove the components packed inside.

Check item numbers on kit boxes against the packing list, but do not open individual kits until needed for assembly. Identify the parts and check them against the packing list. Damage, shortages, and discrepancies must be reported to your local authorized representative or Clivus Multrum, Inc. within 5 working days. **If the compost is not to be installed immediately, secure all components in a safe location which is protected from the weather.**

FOR REPLACEMENT CLAIMS, CLIVUS MULTRUM®, INC. MUST BE NOTIFIED OF ANY CONCEALED DAMAGE OR MISSING PARTS WITHIN 5 WORKING DAYS FROM RECEIPT OF GOODS. AFTER THIS PERIOD, ANY ADDITIONAL PARTS REQUIRED MUST BE PURCHASED AT THE CUSTOMER'S EXPENSE.

Materials

An installation kit is provided with each compost system that includes sealant, pine shavings, screws, nuts and washers.

You will also need to obtain the following materials locally:

• 100 cubic feet of 1" crushed stone

Tools

backhoe
transit
4' or 6' level
shovels
3 pound maul
3' length 2X4 board (scrap)
2 tape measures
carpenter's square
2 or 3-8' step ladders
crescent wrench
staple gun with supply of staples
caulking gun
hammer(s)
pliers
utility knife
1/4" hex-head driver bit
assorted screwdrivers
2 each 11/64", 7/32", 3/16", 3/8" & 1/2" drill bits
cordless drills
circular saw
miscellaneous carpenter's tools

KEEP THIS MANUAL HANDY FOR FUTURE REFERENCE OR SERVICE.

The M54W meets the requirements of the Department of Justice, 28 CFR 36, ADA Standards for Accessible Design. Please check local building codes to ensure compliance.

Clivus Multrum, Inc.
15 Union Street
Lawrence, MA 01840

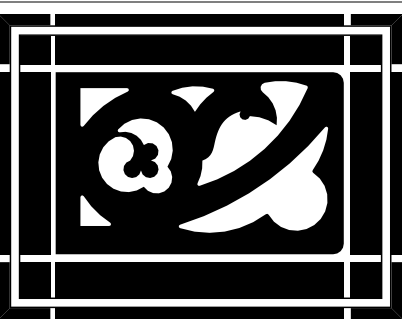
800.425.4887

clivusmultrum.com

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A Maintenance Manual is available from your local Clivus Multrum representative.



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NEW COMMUNITY GARDEN INSTALLATION

CITY OF MORGAN HILL
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Installation and Assembly Instructions (continued)

Door Hardware

Insert lockset into pre-drilled hole, button side in, handle facing the door hinge. Secure mounting plate to chassis with screws provided. Snap rose onto inside and push on remaining handle.

For the door closer, follow the manufacturer's instructions for top-jamb installation for 120° door swing. Use the included lag screws for all six attachments. Blocking is in place to receive these bolts when the closing device is mounted above the door, according to enclosed installation instructions.

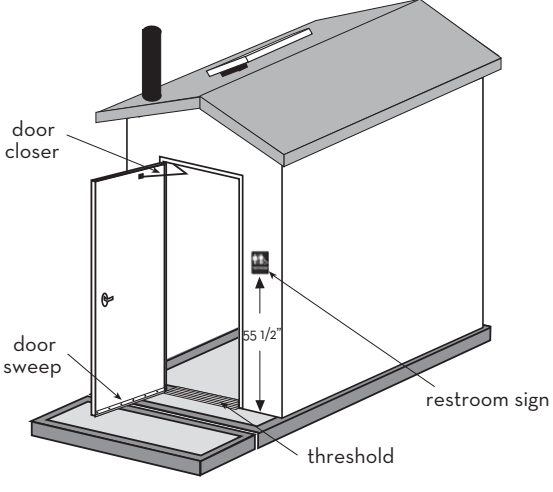


Figure 24 | Door Closer & Door Sweep Location

Restroom Sign

Attach restroom sign on right side of the exterior of building (on the latch side) using 3/4" TEK screws. The bottom edge of the sign measures 55 1/2" from the floor, putting the center of the sign at 60" above floor grade.

Final Elements

The stall plaque is placed on the inside of the M54W above the toilet paper dispenser.

The hasp to lock the Compost Access Lid should be placed on the left side of the base with half on the base and half on the hinged floor panel. This protects the Battery and Controller and prevents access to the Composter Base.

Install the door sweep and threshold. Install waterless, towel-less hand sanitizer dispenser.

Use the black caulking to caulk at the top of the floor channels to keep out rain water.

Parts & Hardware

Parts

Composter base with anchors
Floor panel and compost access lid
Floor sill plates (pre-mounted)

Window wall panel
Door wall panel
Side wall panels, 48" (2); 44" (2)
Roof panels (2)
Steel fittings with bolts, nuts & washers (2)
2"x4" lumber: 4 angled
Splines (4)
Boards & battens
1 1/4" trim piece for window frame (2)
1 1/4" trim piece for door frame (1)
1"x3" boards for window & door frames
Plywood & 1"x4-3/4" for roof trim
Primed 3/4"x2" for interior trim
Construction cement (2)
House wrap
Drip edge
Roofing package (shingles, metal or custom)
Fan assembly, AC or DC
ABS vent pipe
Toilet assembly
Toilet chute
ADA grab rails (42" - 2; 18" - 1)
Door knob assembly
Door closer
Door sweep

Stall Plaque
ADA restroom sign
MC100 Multrum Cleaner
MB100 Multrum Bacteria
Maintenance tools (2)
Solar system (optional)
Hardware
Nails: 8d; 2-1/2" ring shank
Screws: 6" - 60
Padlocks (1)
Sealant (black - 1; white - 2; clear - 1)
Starter Bed Material
Softwood Planer Shavings (3)

This completes the installation of the M54W composter. For general care of the system, consult the Maintenance Manual.

QUESTIONS ABOUT THE INSTALLATION OR OPERATION OF THIS DEVICE SHOULD BE DIRECTED TO YOUR LOCAL CLIVUS MULTRUM REPRESENTATIVE OR TO CLIVUS MULTRUM, INC.



Figure 25 | Restroom Sign

Installation and Assembly Instructions (continued)

Electrical Components

Mount Solar Panel (optional)

Locate solar hardware package. Use four aluminum brackets for mounting a single panel system. Multi-panel systems may include two aluminum rails for joining panels. Carflex connector is provided for wiring multiple panel systems in series.

Use a screwdriver to knock out the plastic indentation on the solar panel wiring box and attach the strain relief fitting. Strip and expose the solar cable (2-strand, 14 gauge, insulated). Feed the wires through the strain relief and screw on the strain relief ring. Attach the black (negative) strand to the negative terminal and the red (positive) strand to the positive terminal. (Note "+" and "-" markings on solar panel terminal strip.) Screw on wiring box cover.

On the south-facing side of the roof, use the panel as a guide to mark for the holes to receive the well nuts or lag screws to attach the panel to the roof. Caulk all roof penetrations.

Drill a 1/2" hole in the ABS vent pipe near top of the vent flashing. Feed the cable down the pipe and out the clean-out nut. Leave the lower hole unsealed to allow moisture to drain.

Solar Power Wiring (Typical)

Place the battery on the shelf under the hinged Compost Access Lid. Mount the Controller on the Composter Base wall near the Battery. Cut about 2' length off the end of the solar cable. Split 6" at one end and 2" at the other. Attach the 6" ends to the battery--Red to Positive, Black to Negative. The 2" end connects to the Controller--Red to Battery Positive, Black to Battery Negative. Use caution when wiring the Controller to avoid permanent damage to the part.

Follow the wiring diagram on this page for typical solar systems. The fan will operate when battery charge exceeds 12.6 volts.

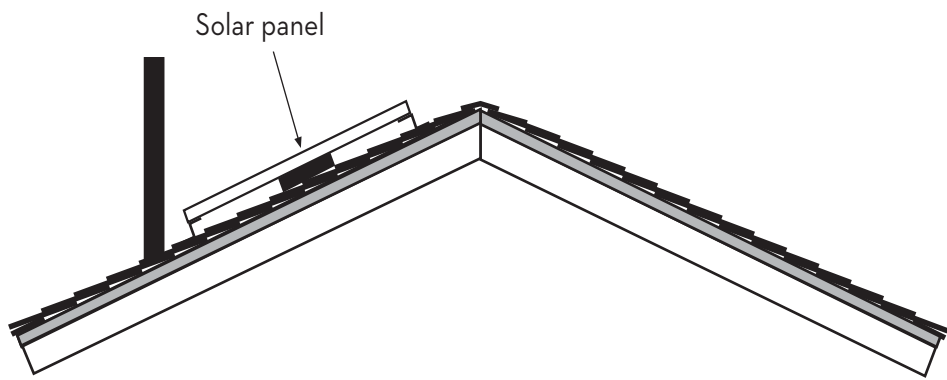


Figure 18 | Mounted Solar Panel

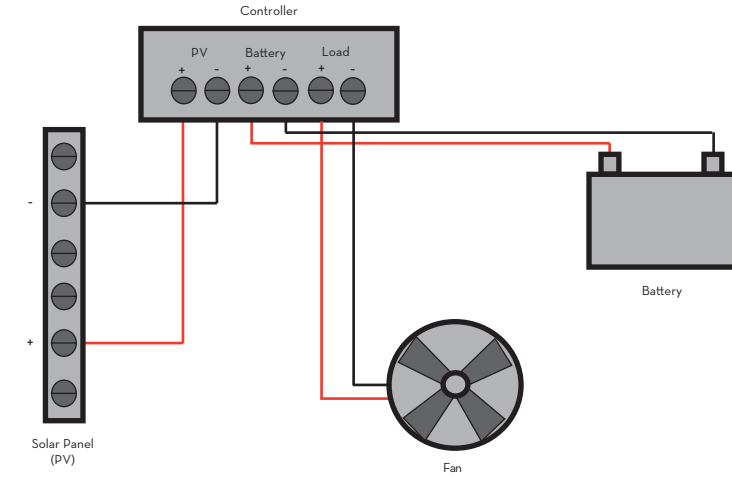


Figure 19 | Typical Solar Wiring

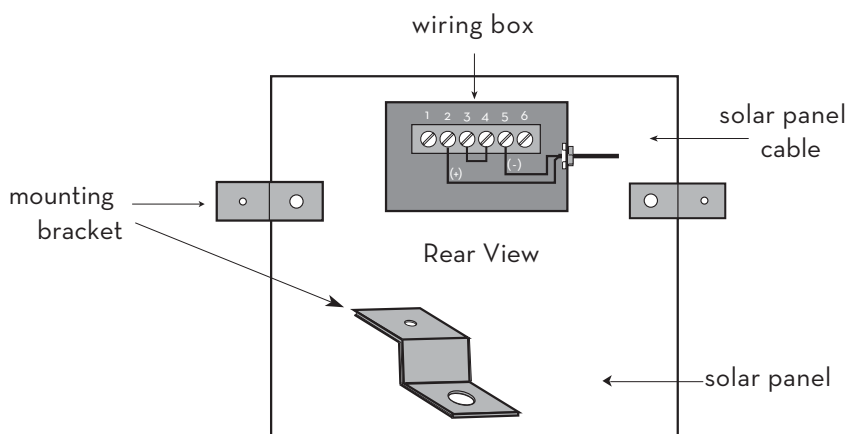


Figure 20 | Solar Panel Components

Installation and Assembly Instructions (continued)

Rear Wall: There are twelve 8" boards for the rear wall: eight angled boards (four long, four short) and four square boards. Position two of the long, angled boards on either side of the window so that they cover up to the inside edge of the white window frame (see figure 17). There are two 3" x 33" pieces for the top and bottom of the window to complete the first level of the window frame. There are two 3" x 21" pieces for the finished sides of the window frame, and two 3" x 39" pieces for the finished top and bottom of the window frame (see figure 17). Apply remaining angled boards allowing for appropriate space between; apply square boards beneath window. Apply clear silicone caulk around the window where the wood meets the plastic window frame.

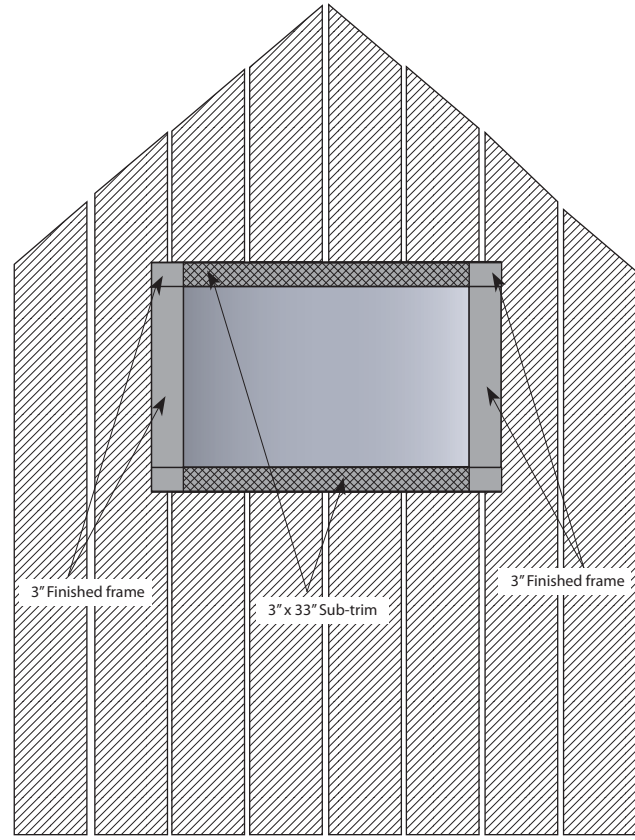


Figure 16 | Window Wall Trim

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Installation and Assembly Instructions (continued)

Fixture Installation

Install Toilet

Remove the screw at the front of the toilet and remove the top/liner. Position the toilet base with 2" clearance from the Window Wall. Use the 3/16" drill bit to drill pilot holes for the screws packed with the toilet. Attach toilet base to floor with 4 screws and washers.

Push the green toilet chute into the hole so the flange rests firmly on the floor. Replace the toilet top/liner, being sure the liner fits inside the chute while the hook engages on the back of the toilet. Replace the front screw and caulk around toilet base using the white caulking provided.

Add Grab Bars

Mount the rear 42" grab bar on the Window Wall 34" from the floor on-center, with 6 clear inches in the back right corner as you face the rear of building. Level the bar and mark the holes at each end. Use 1 1/4" self-tapping screws to secure.

Repeat for the side wall 42" grab bar, leaving 12" between the rear wall and the bar.

Install the 18" vertical grab bar with the bottom of the bar 40" above the floor, and with the center line of the bar located 40" from the rear wall. Level the bar and mark the holes at each end. Use 1 1/4" self-tapping screws to secure.

These measurements are based on the International Building Code's ANSI approved ADA Accessibility Guidelines. Consult local building codes to ensure compliance.

Toilet Paper Dispenser

Install the dispenser at a minimum height of 19" on-center and a maximum of 36" from the back wall at its furthest edge (or consult local ADA regulations). Mark and drill holes using the 3/16" bit. Use 1 1/4" self-tapping screws to secure.

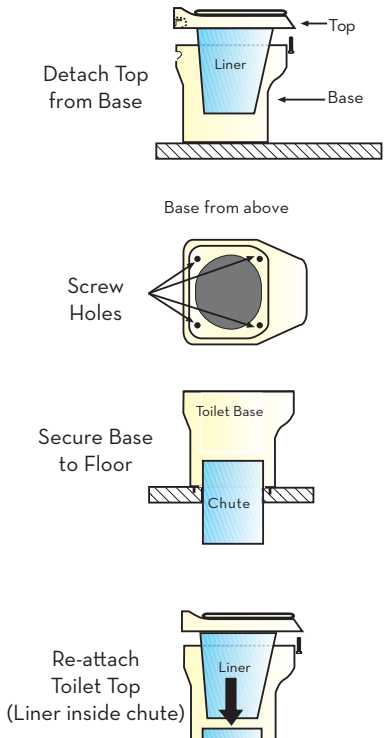


Figure 21 | Toilet Installation



Figure 22 | Clivus sign

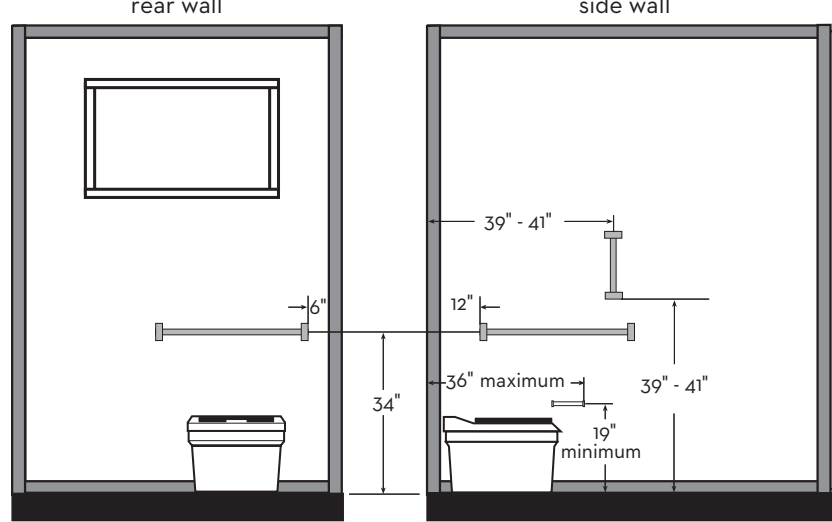


Figure 23 | Rails & Dispenser Installation

Installation and Assembly Instructions (continued)

Front Wall:

Apply the two longer angled boards so that they cover the white door frame up to about 1/2". There is one 3" x 36-1/2" piece that goes above the door (leave 1/2" of the white frame exposed). See figure 18. There are two 3" x 81" boards for the finished vertical sides of the door frame and one 3" x 42" piece for the top of the door frame. Apply remaining angled boards leaving appropriate space between.

Battens

Measure and cut the battens to length. Secure over the gaps between the larger boards, attaching to the adjacent wide board on one side only with 2-1/2" stainless steel ring shank nails. Nailing to one side only will allow seasonal wood movement. See figure 16 for corner batten scheme.

Interior Trim:

Cut and nail 1" plastic strips where walls and floor meet, for side panel joints, and for ceiling angle using 1-1/2" finish nails.

Use the white caulking on corners or other seams as needed.

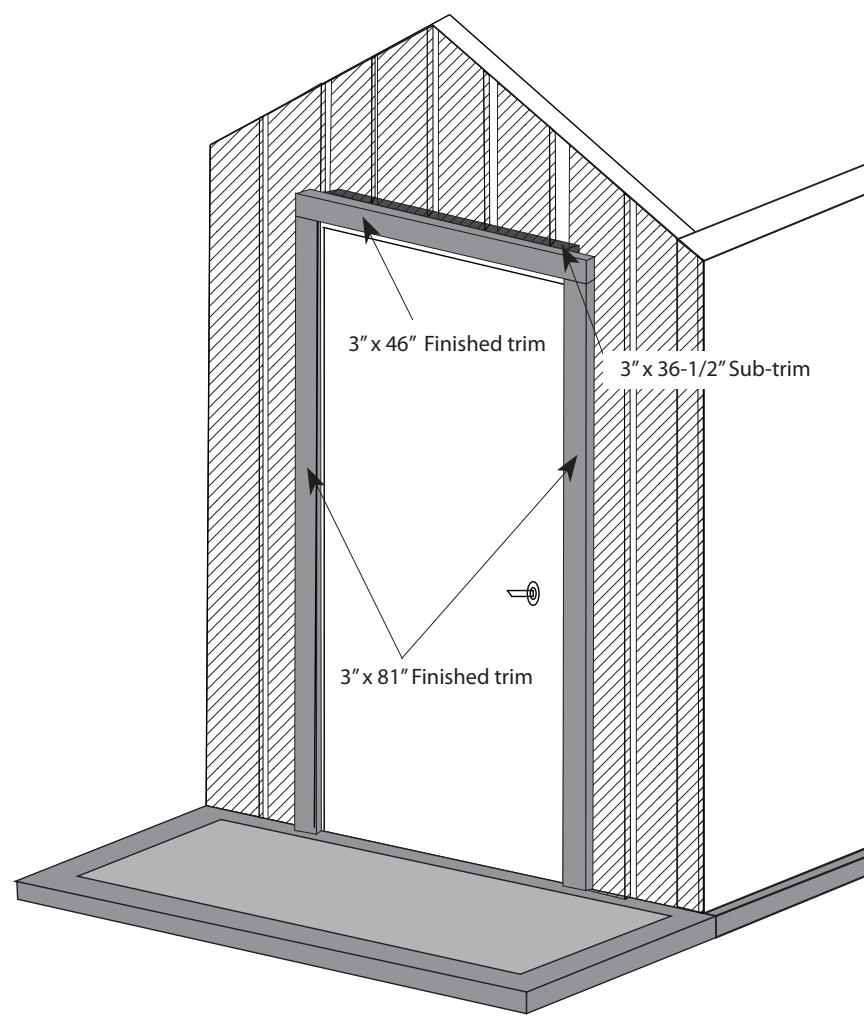


Figure 17 | Door Wall Trim

Installation and Assembly Instructions (continued)

OSB and 2"x6" beveled top plate. Repeat 12" on center around the building as needed. Repeat inside building using painted nails.

Install Vent System

Slide the 10" ABS pipe through the pre-drilled vent hole in the roof (Figure 15). Push the ABS fan assembly up through the vent hole in the floor and connect to the 10" pipe with the 4" coupling provided. No glue is needed. Turn the fan assembly so the fan faces to the right, parallel to the front of the building.

Trim & Finish

Trim Roof

Attach 1/4" plywood pieces to exterior underside of roof using 2-1/2" stainless steel ring shank nails provided. Trim plywood as needed. Attach the 5-1/2" fascia boards around the gable and rake ends of the roof. Field cut to size and angle.

Use vent flashing, roof paper, drip edge and roofing nails to shingle roof.

Trim Building - Standard Finish

Remove white brick molding from outside of door frame. Wrap building with house wrap, starting at bottom of building and overlapping layers by 4". Staple into place.

Note: Trim length of boards as needed.

Side Walls: There are ten 8" wide boards for each side. Attach the front board flush with the front wall panel. Attach the rear board overhanging the rear wall panel. See figure 16. Use 2-1/2" stainless steel ring shank nails provided. Fill in between with remaining 8" boards, leaving approximately 1" between each board. Note: boards are irregular in width so make sure proper space is allowed between boards before final attachment.

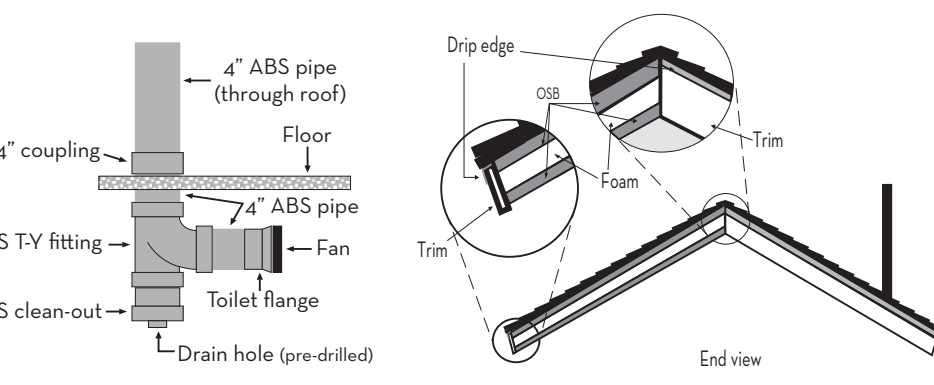


Figure 12 | Vent System

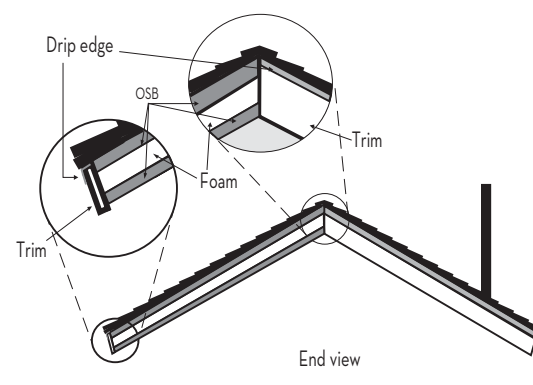


Figure 13 | Roof Trim

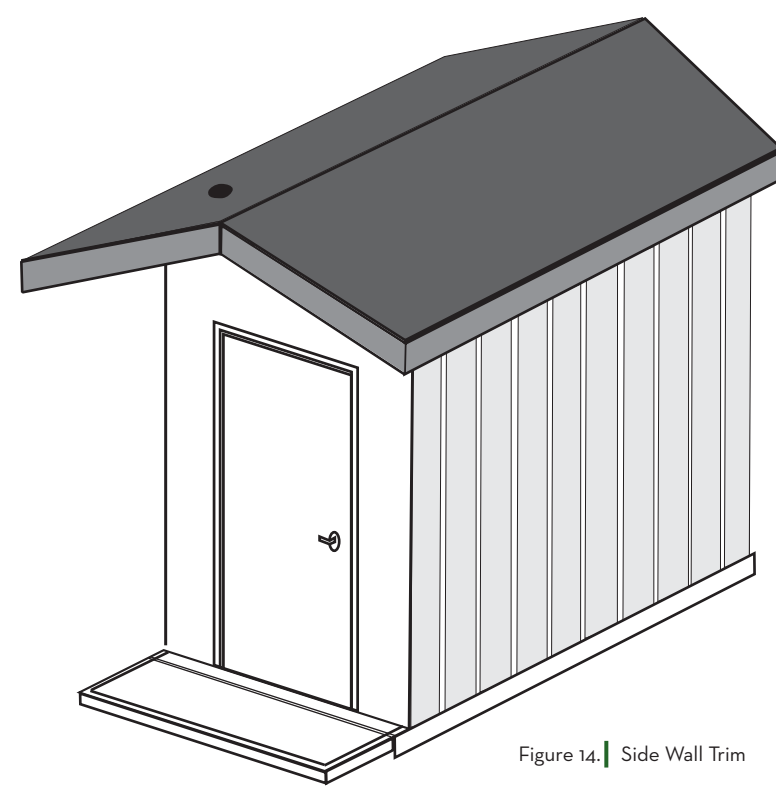


Figure 14 | Side Wall Trim

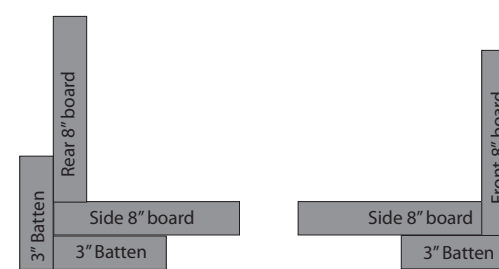


Figure 15 | Corner board & battens
View from Above

RESTROOM DETAILS

NEW COMMUNITY GARDEN INSTALLATION

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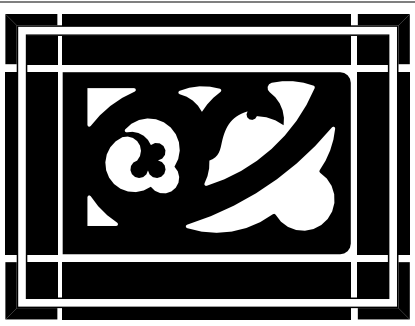
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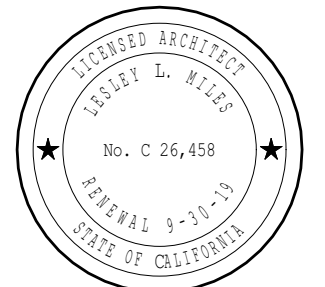
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ROOF FRAMING, FOUNDATION, &
HOLDING TANK DETAILS

NEW COMMUNITY GARDEN INSTALLATION

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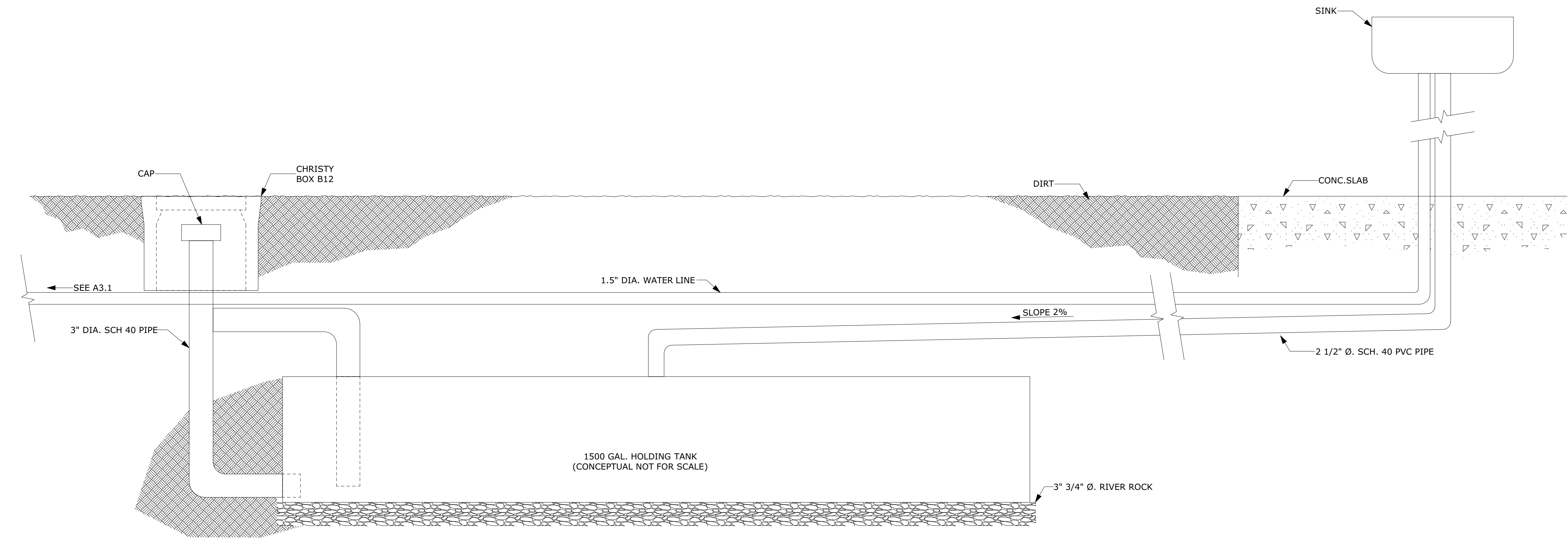
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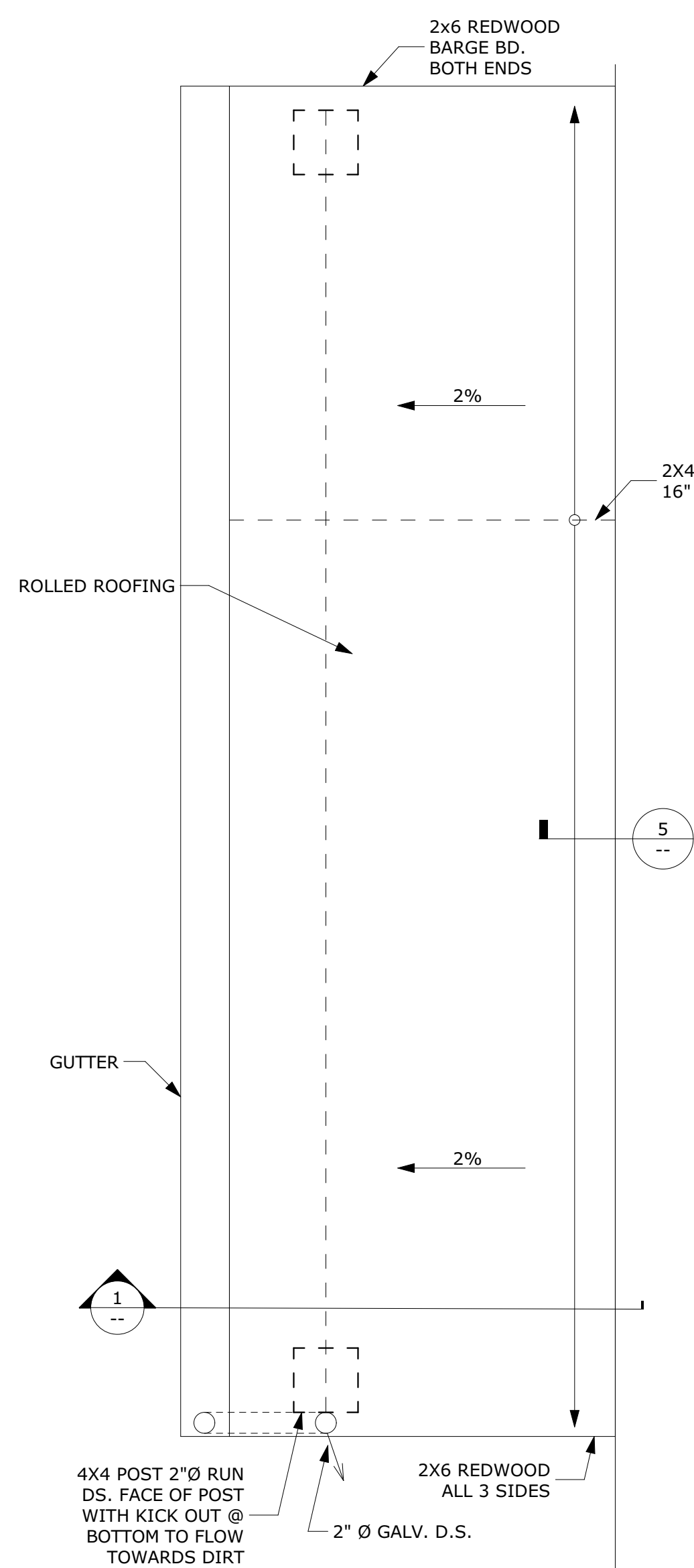
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HOLDING TANK (CONCEPTUAL NOT FOR SCALE)

SCALE: 1 1/2" = 1'-0"

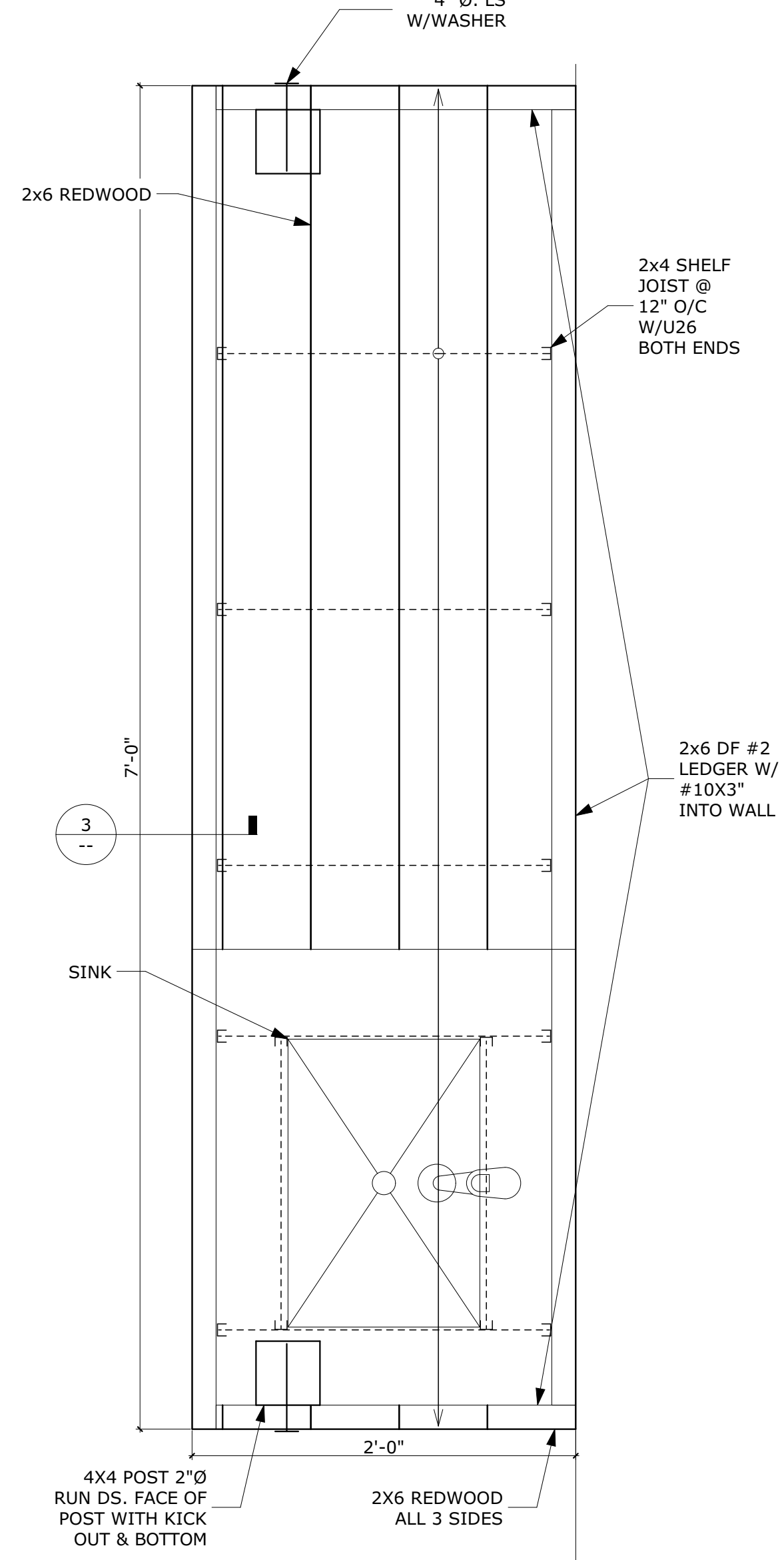
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ROOF PLAN

SCALE: 1 1/2" = 1'-0"

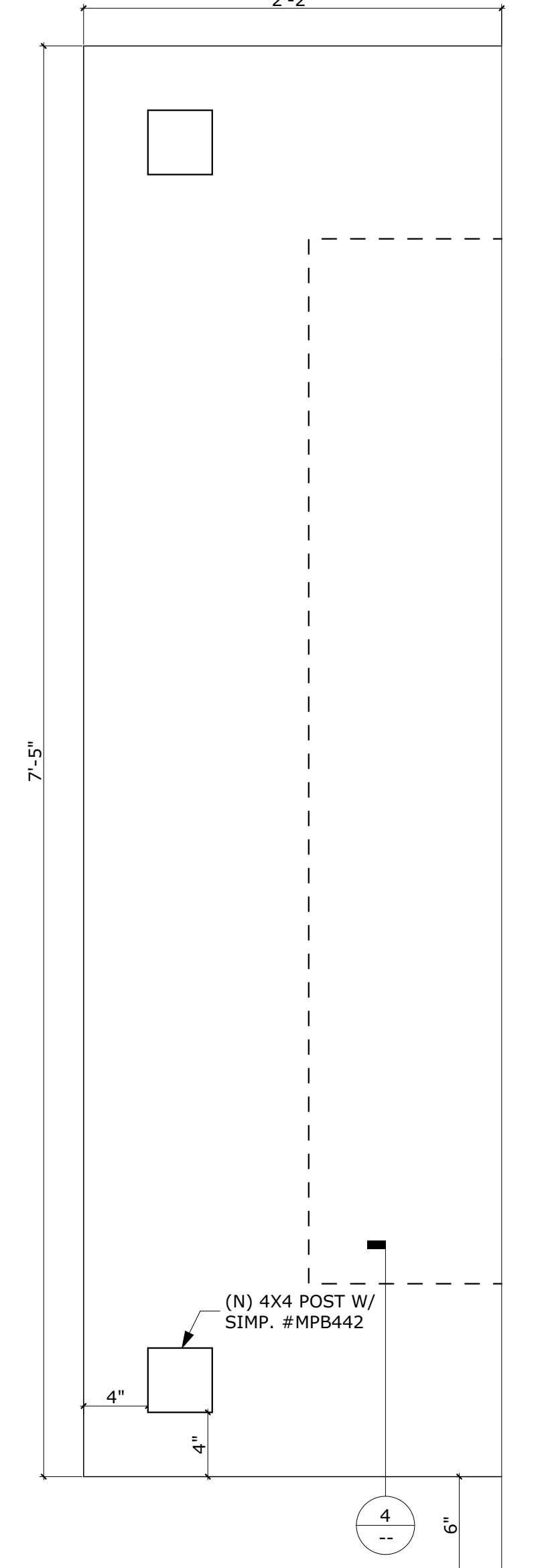
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SINK BASE FRAMING

SCALE: 1 1/2" = 1'-0"

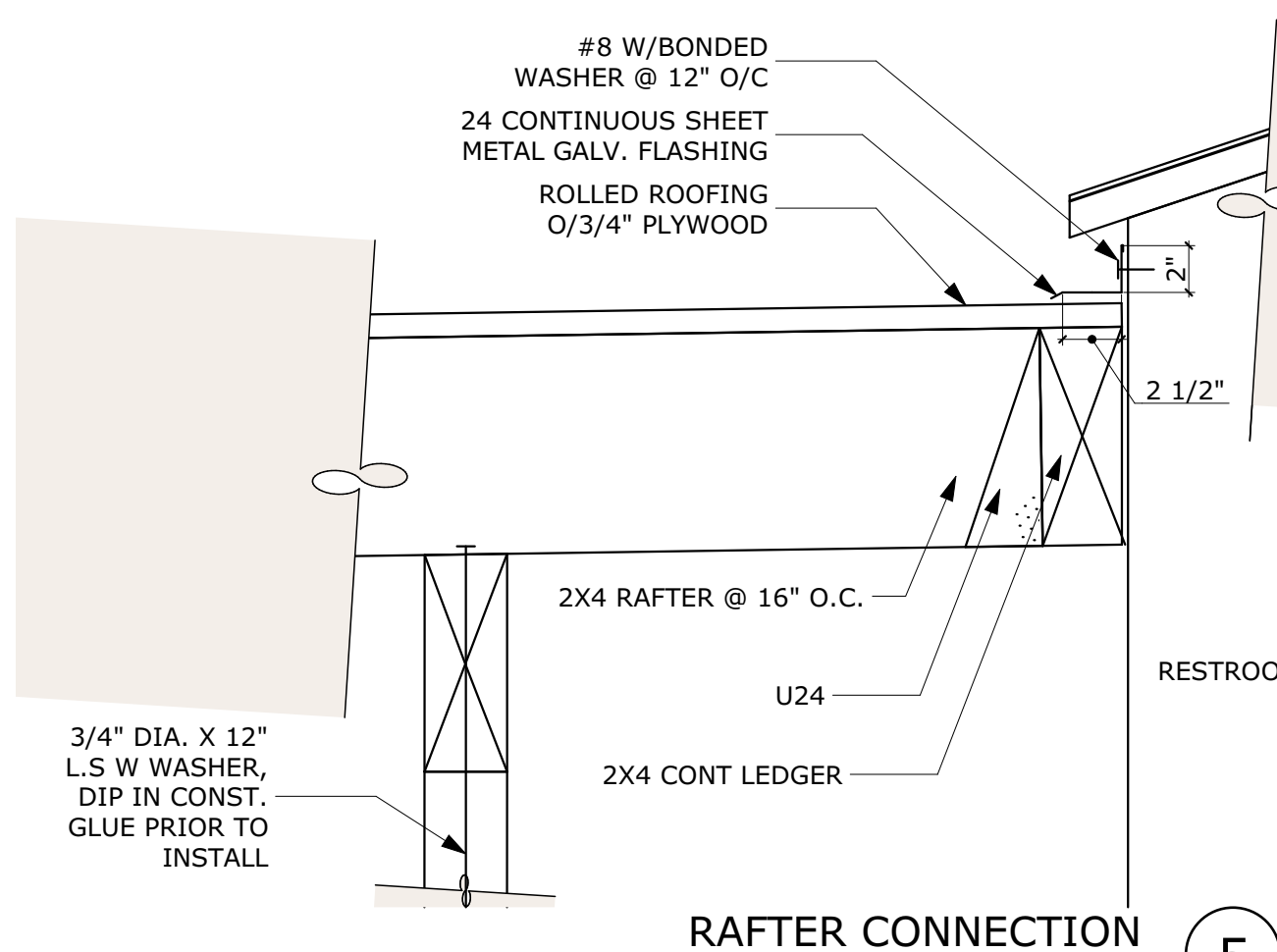
7



FOUNDATION PLAN

SCALE: 1 1/2" = 1'-0"

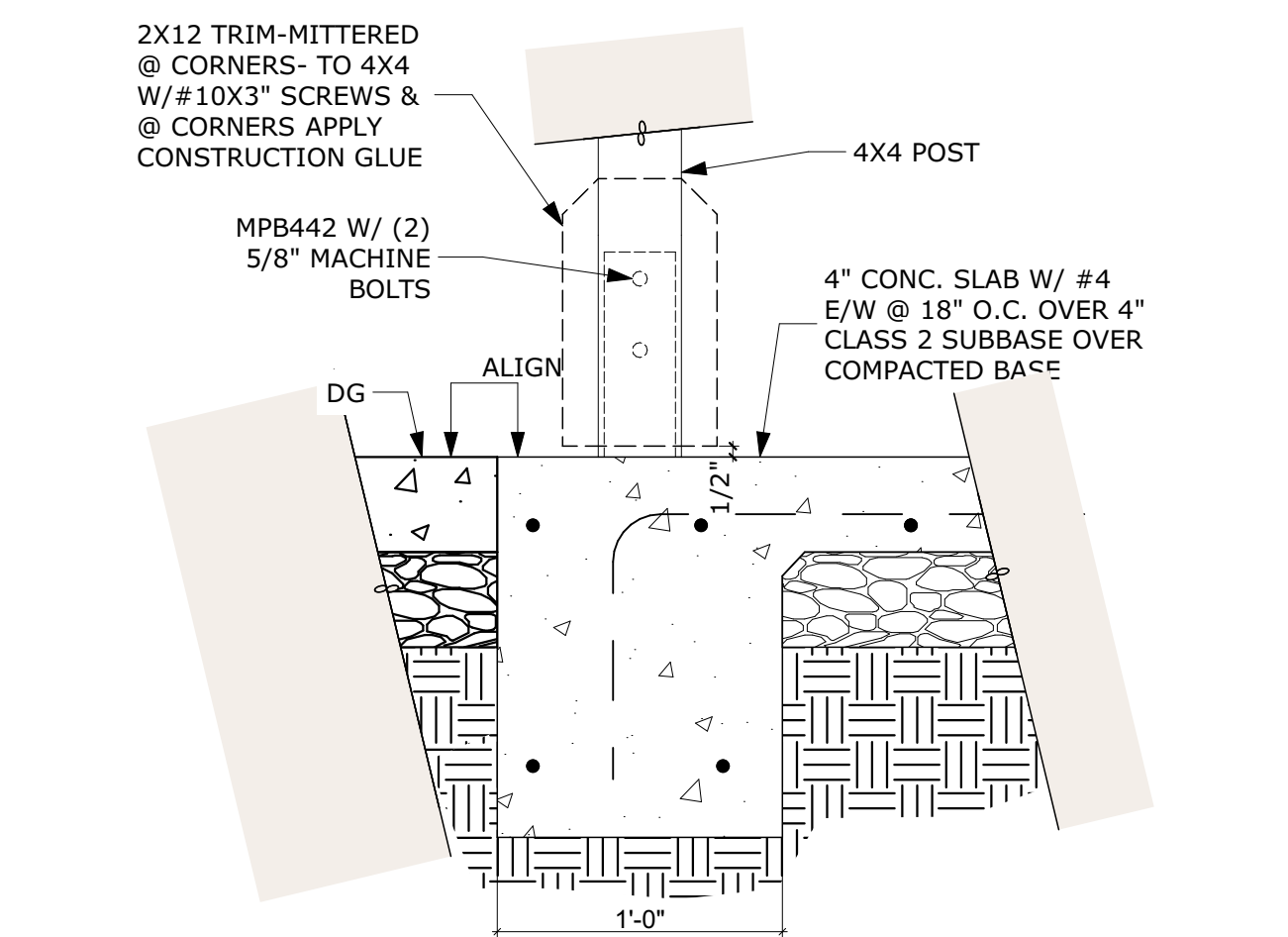
6



RAFTER CONNECTION

SCALE: 1 1/2" = 1'-0"

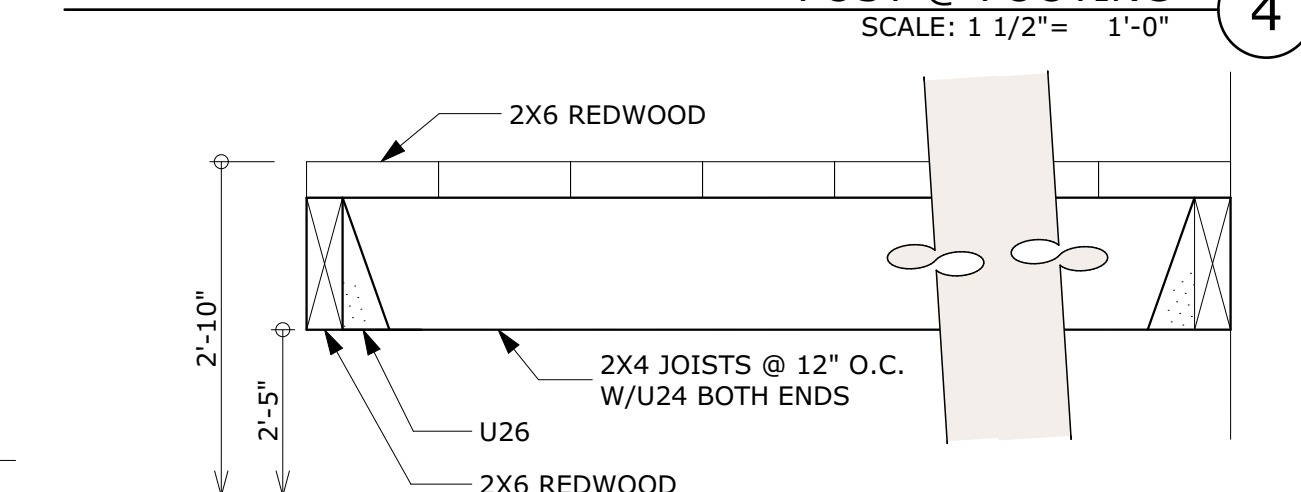
5



POST @ FOOTING

SCALE: 1 1/2" = 1'-0"

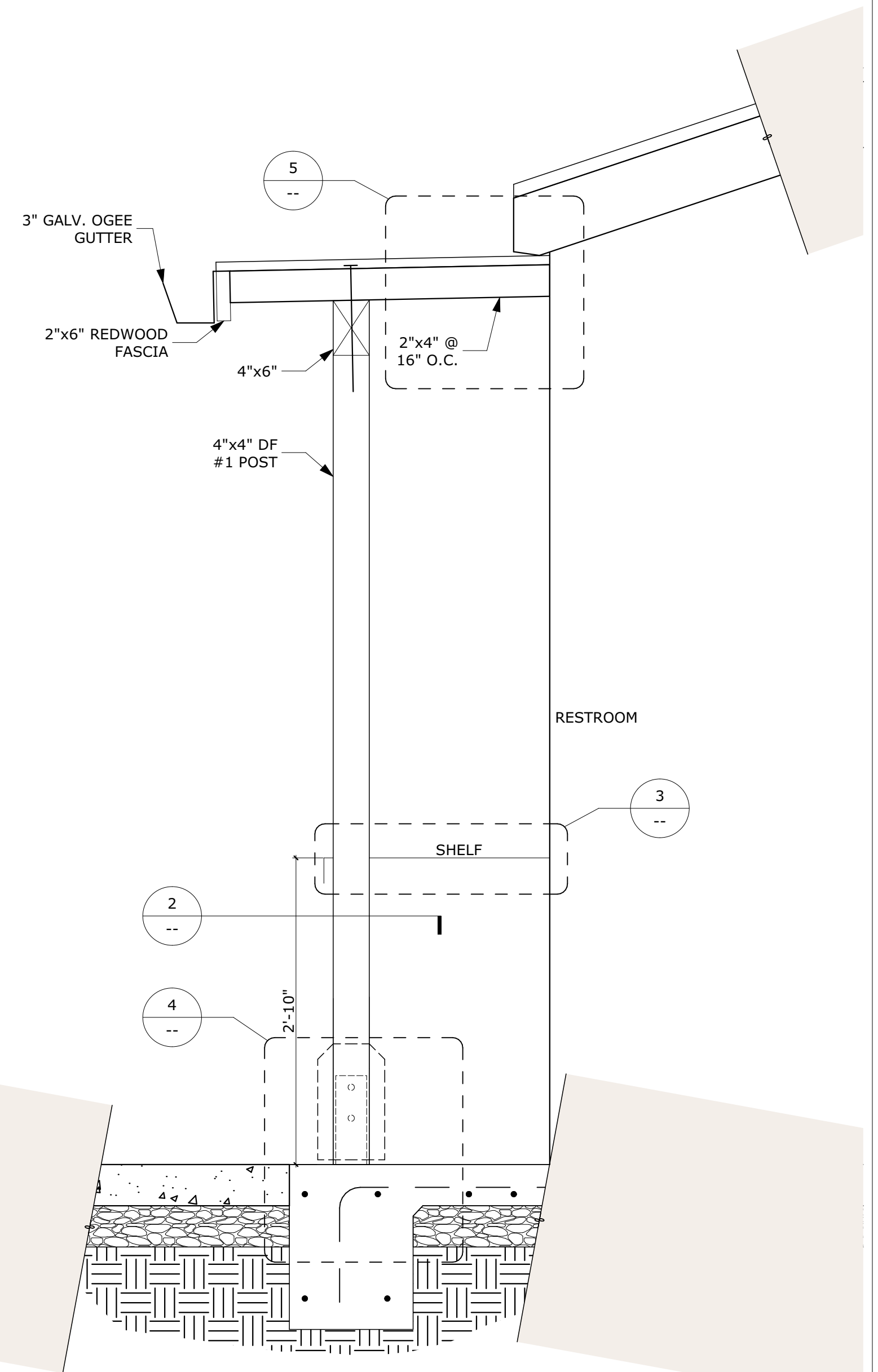
4



SHELF FRAMING

SCALE: 1 1/2" = 1'-0"

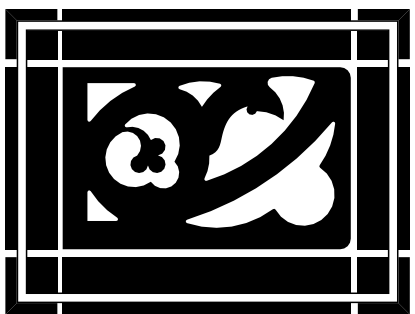
3



ROOF ELEVATION

SCALE: 1\"/>

1



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PLUMBING PLAN

NEW COMMUNITY GARDEN INSTALLATION

CITY OF MORGAN HILL
15690 RAILROAD AVE., MORGAN HILL, CA 95037

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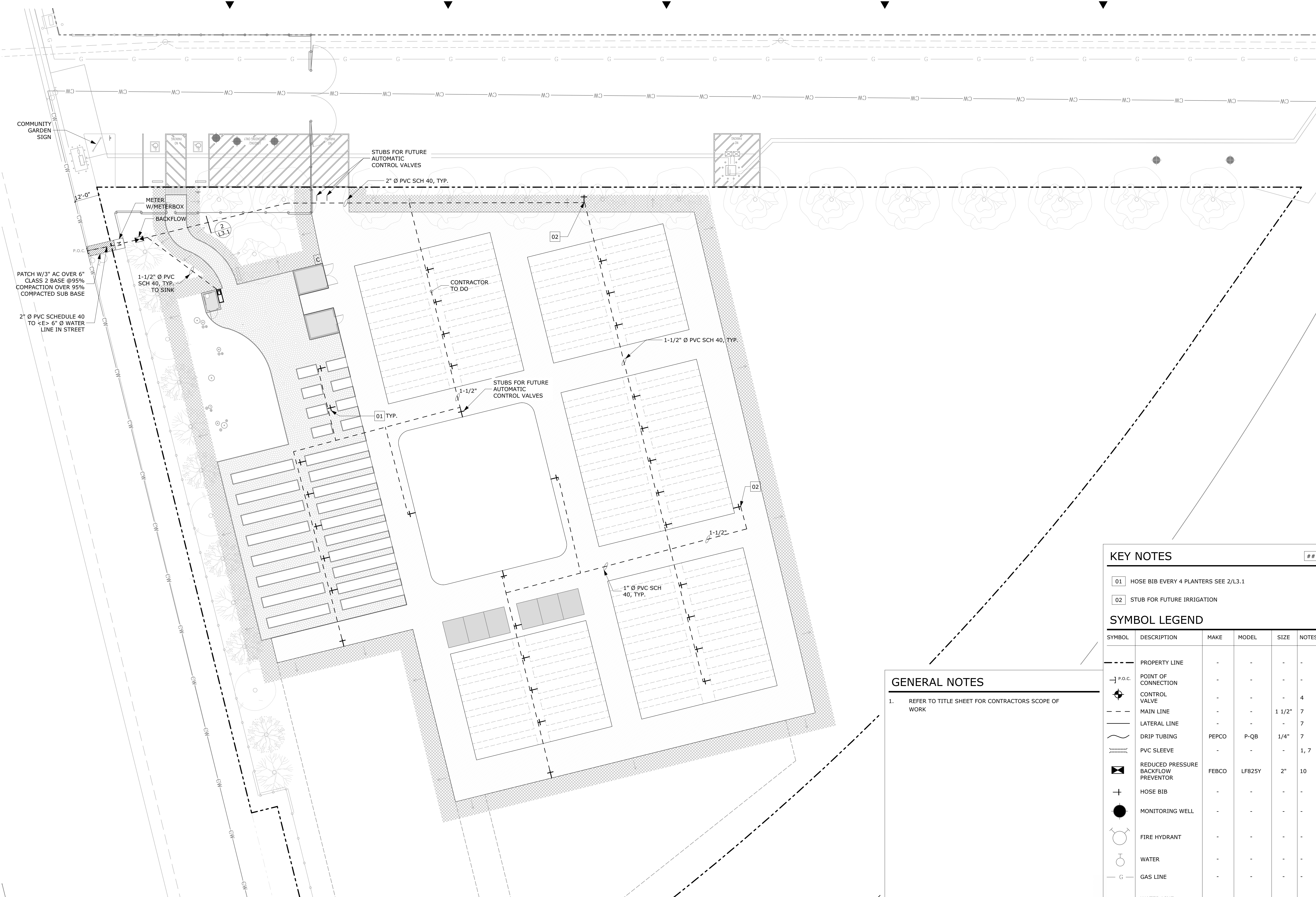
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A3.1



KEY NOTES

- 01 HOSE BIB EVERY 4 PLANTERS SEE 2/L3.1
02 STUB FOR FUTURE IRRIGATION

SYMBOL LEGEND

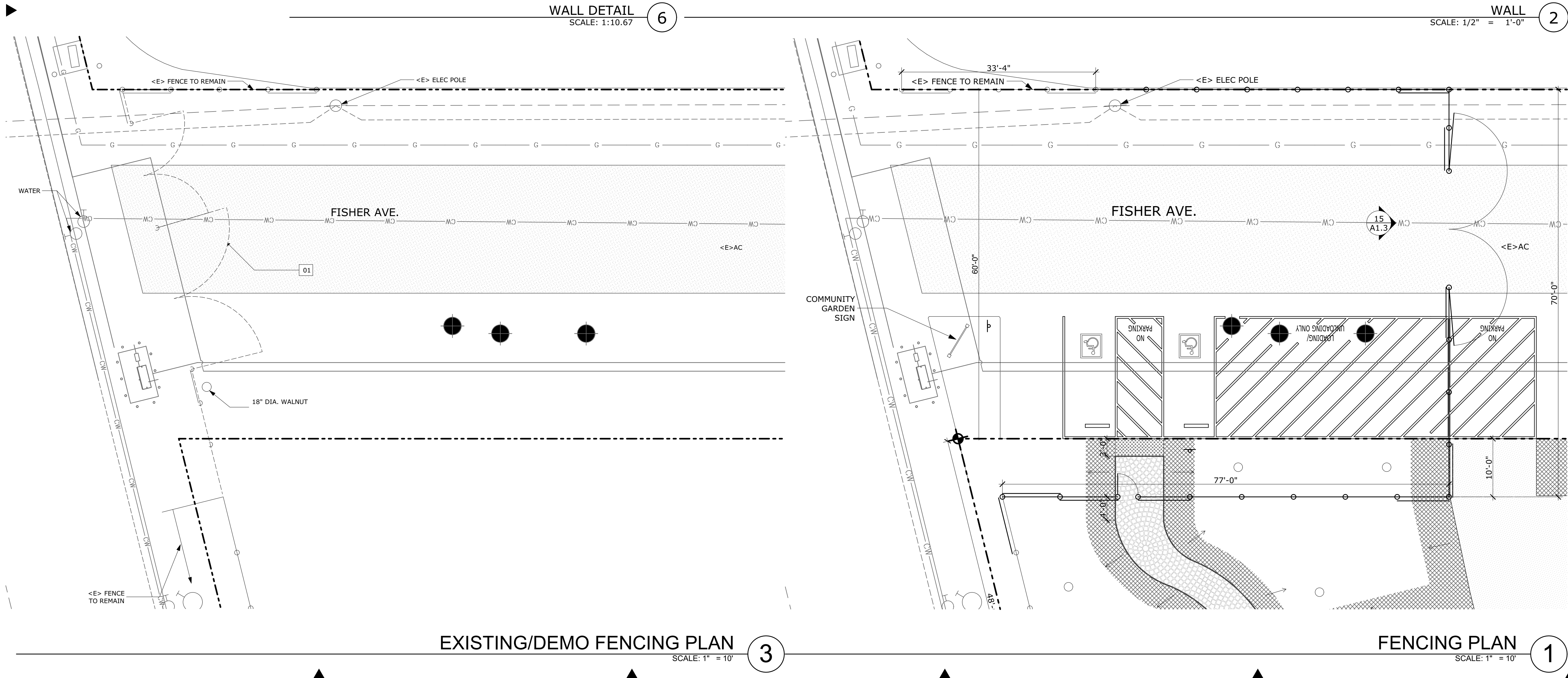
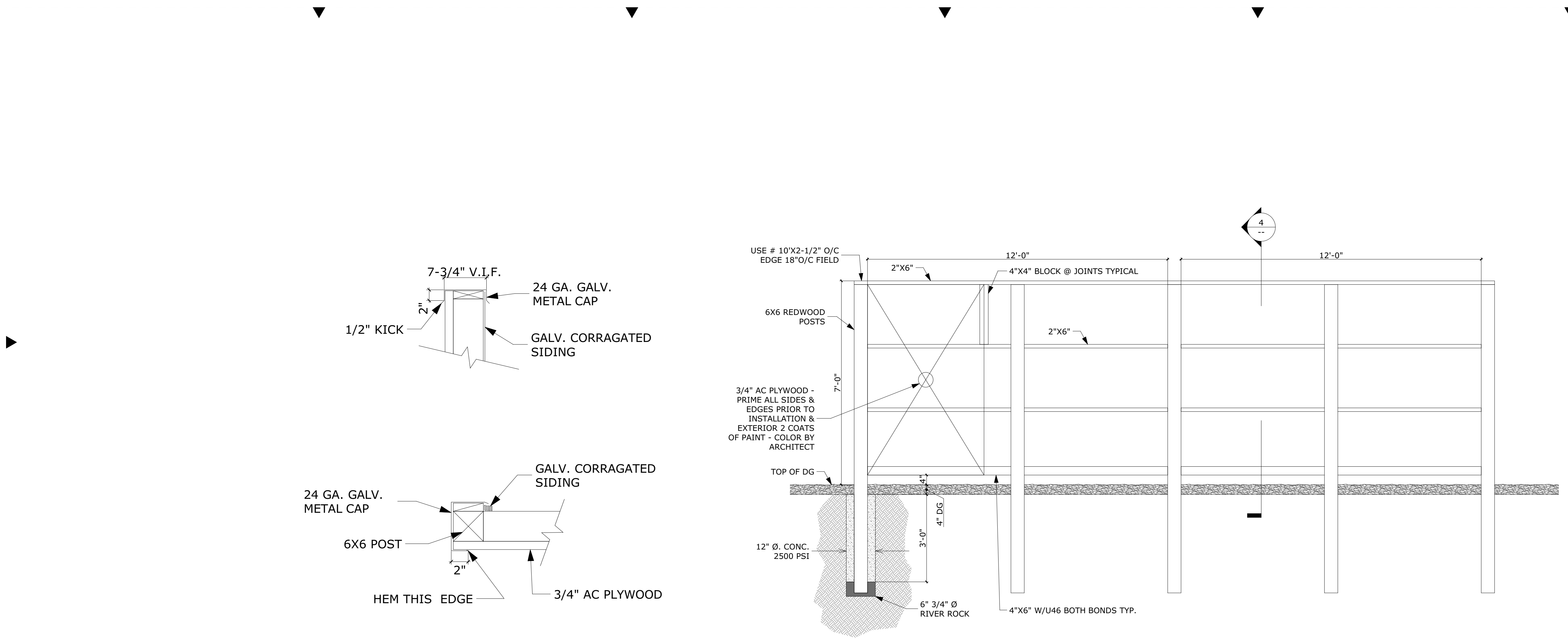
SYMBOL	DESCRIPTION	MAKE	MODEL	SIZE	NOTES
---	PROPERTY LINE	-	-	-	-
P.O.C.	POINT OF CONNECTION	-	-	-	-
⊕	CONTROL VALVE	-	-	-	4
---	MAIN LINE	-	-	1 1/2"	7
---	LATERAL LINE	-	-	-	7
~	DRIP TUBING	PEPCO	P-QB	1/4"	7
=====	PVC SLEEVE	-	-	-	1, 7
⊠	REDUCED PRESSURE BACKFLOW PREVENTOR	FEBCO	LF825Y	2"	10
+	HOSE BIB	-	-	-	-
●	MONITORING WELL	-	-	-	-
⊕	FIRE HYDRANT	-	-	-	-
⊕	WATER	-	-	-	-
G	GAS LINE	-	-	-	-
CW	WATER LINE	-	-	-	-
<E> AC	EXISTING ASPHALT	-	-	-	-

GENERAL NOTES

1. REFER TO TITLE SHEET FOR CONTRACTORS SCOPE OF WORK

PLUMBING PLAN
SCALE: 1/16" = 1'-0"

1



GENERAL NOTES

1.

REFER TO TITLE SHEET FOR CONTRACTORS SCOPE OF WORK

KEY NOTES

01

EXISTING FENCE/GATES TO BE REMOVED

REVISIONS

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FENCING PLAN

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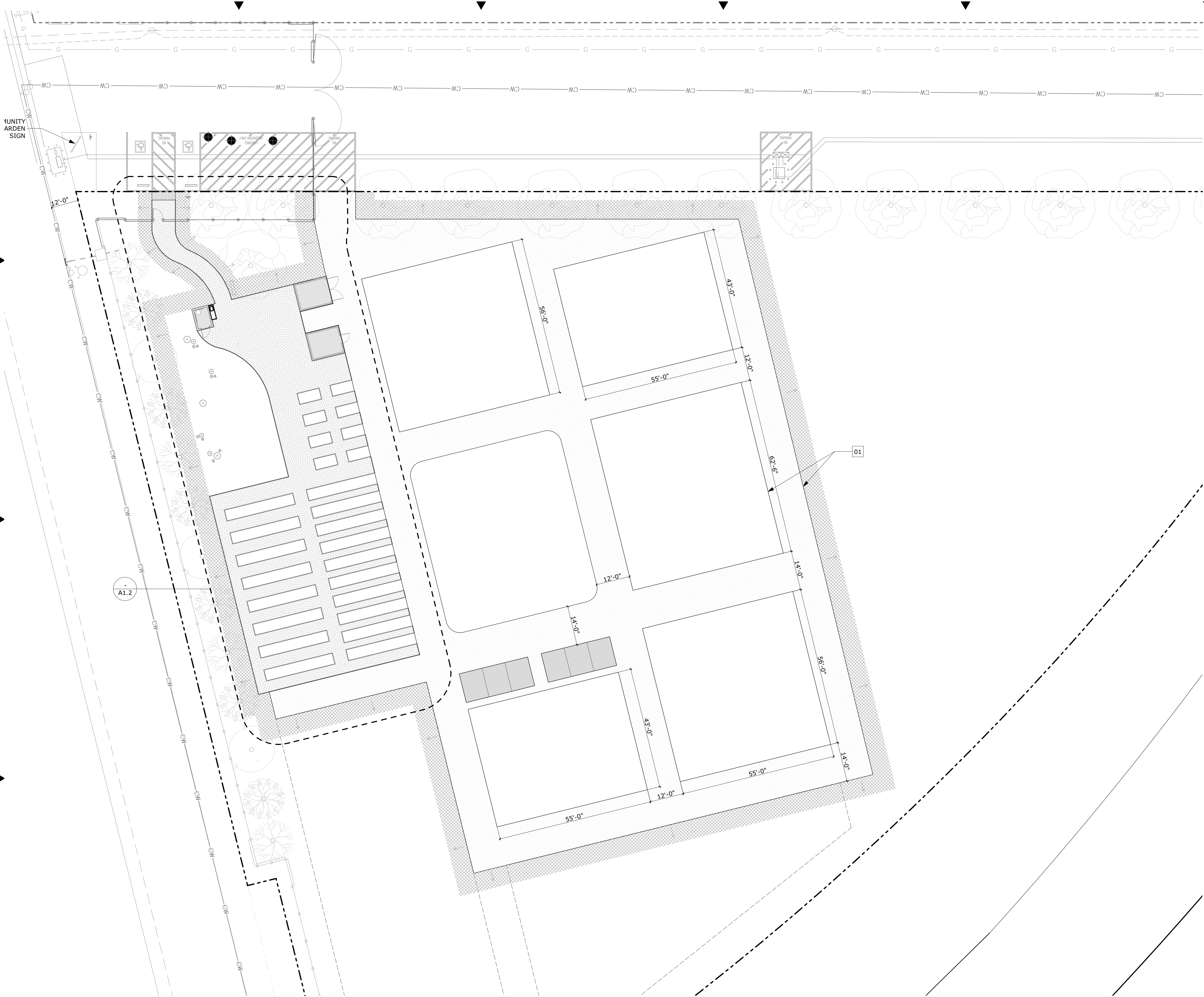
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A4.1



GENERAL NOTES

1. REFER TO TITLE SHEET FOR CONTRACTORS SCOPE OF WORK

KEY NOTES

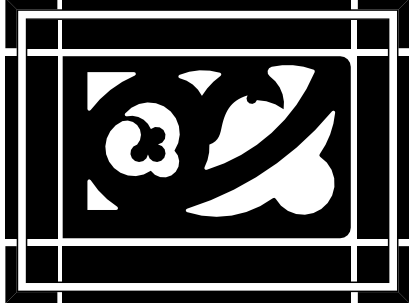
- 01 METAL EDGING, SEE A1.2 FOR DETAIL REFERENCES

SYMBOL LEGEND

METAL EDGING PLAN

SCALE: 1/16" = 1'-0"

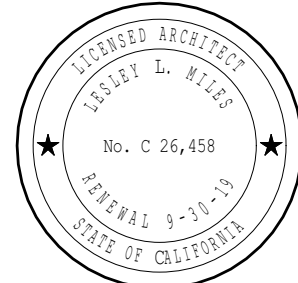
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METAL EDGING PLAN

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A4.2

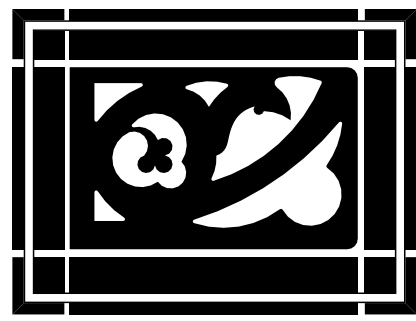
MUNITY
GARDEN
SIGN

12'-0"

NEW FENCE SECTION TO
CLOSE OFF GARDEN AREA

LANDSCAPE PLAN - FOR REFERENCE ONLY
SCALE: 1" = 20'

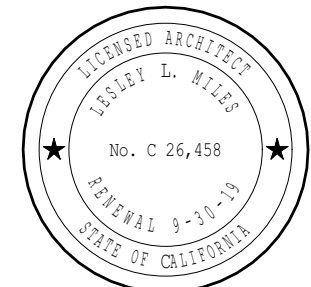
1



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GENERAL NOTES

- ALL TREES TO REMAIN UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL <E> UTILITIES PRIOR TO ANY EXCAVATION.
- ALL SPOILS, DEBRIS, AND INCIDENTAL ITEMS TO BE REMOVED SHALL BE HAULED OFF SITE BY CONTRACTOR AND BE DISPOSED OF IN A LAWFUL MANNER AS IT ACCUMULATES.
- CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE IN ANY WAY, ANY <E>ELEMENTS NOT DESIGNATED FOR REMOVAL. SUCH DAMAGE IS THE RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- SHUT OFF ALL WATER, GAS & ELECTRIC WILL NEED TO BE COORDINATED W/<E>SITE OPERATIONS
- THE SITE MUST BE CLEANED AT THE END OF EACH BUSINESS DAY.
- CONTRACTOR TO MAINTAIN A SAFE, SECURE SITE.
- THIS DRAWING REFLECTS THE <E> SITE CONDITIONS TO THE BEST OF OUR KNOWLEDGE
- CONTRACTOR TO COORDINATE FINAL LOCATION/LAYOUT OF ALL PLANTS W/ARCHITECT ONSITE PRIOR TO PLANTING

PLANTING LEGEND FOR REFERENCE ONLY PLANTS PROVIDED BY CITY OF
MH AND PLANTED BY OTHERS

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QTY	REMARKS
TREES					
	QUERCUS AGRIFOLIA	COAST LIVE OAK	15 GAL	#	SEE DETAIL 1/L3.1
	SABUCUS NIGRA	ELDER BERRIE	15 GAL	#	SEE DETAIL 1/L3.1
	CERCIS OCCIDENTALIS	RED BUD	15 GAL	#	SEE DETAIL 1/L3.1
	QUERCUS DOUGLASSI	BLUE OAK	15 GAL	#	SEE DETAIL 1/L3.1

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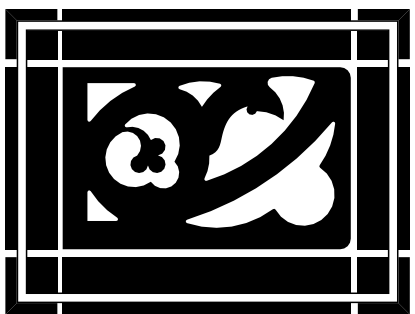
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L1.1

LANDSCAPE PLAN - FOR REFERENCE ONLY

NEW COMMUNITY GARDEN INSTALLATION

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IRRIGATION PLAN - FOR REFERENCE
U.O.N. ONLY

NEW COMMUNITY GARDEN INSTALLATION

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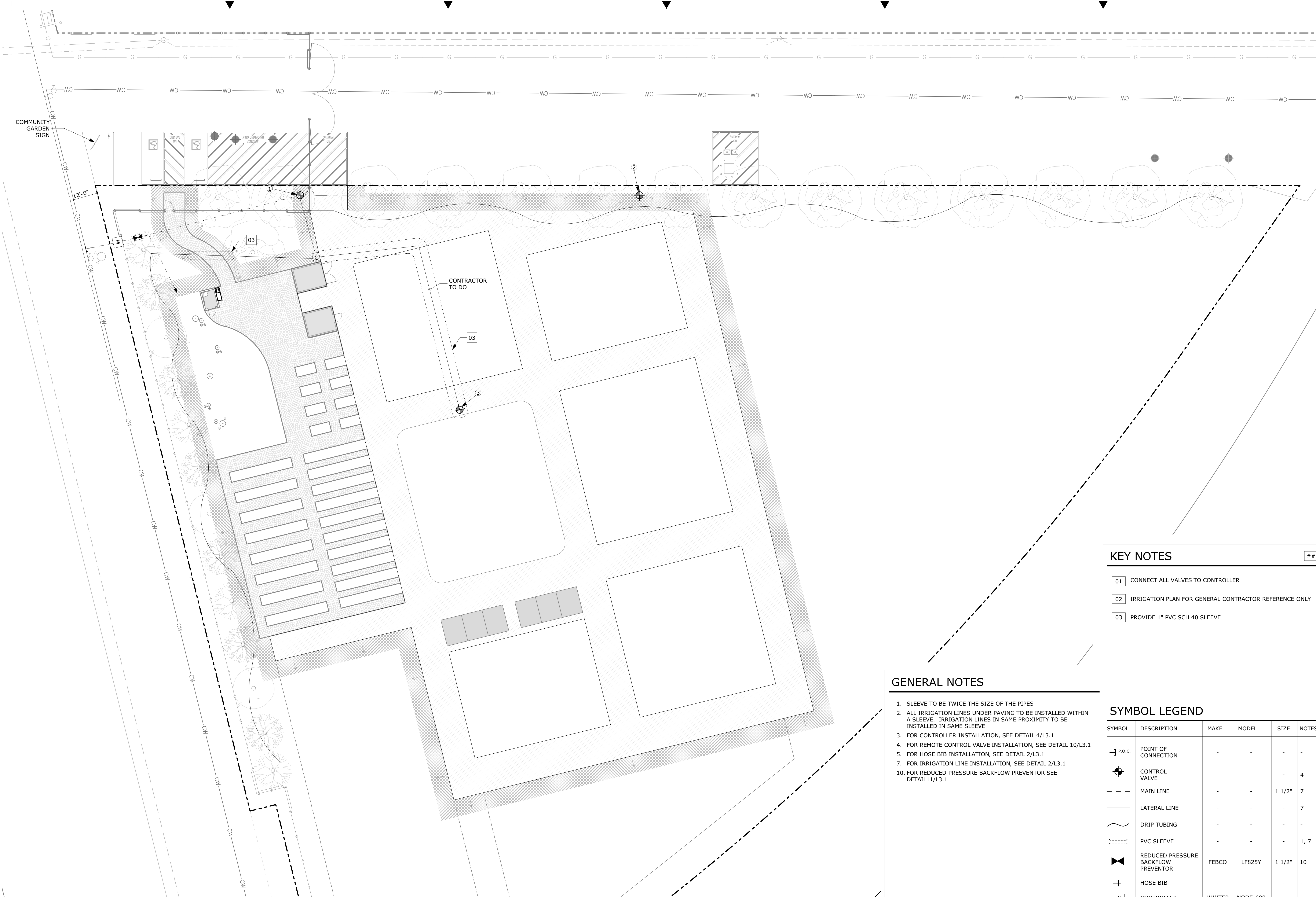
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L2.1



GENERAL NOTES

- SLEEVE TO BE TWICE THE SIZE OF THE PIPES
- ALL IRRIGATION LINES UNDER PAVING TO BE INSTALLED WITHIN A SLEEVE. IRRIGATION LINES IN SAME PROXIMITY TO BE INSTALLED IN SAME SLEEVE
- FOR CONTROLLER INSTALLATION, SEE DETAIL 4/L3.1
- FOR REMOTE CONTROL VALVE INSTALLATION, SEE DETAIL 10/L3.1
- FOR HOSE BIB INSTALLATION, SEE DETAIL 2/L3.1
- FOR IRRIGATION LINE INSTALLATION, SEE DETAIL 2/L3.1
- FOR REDUCED PRESSURE BACKFLOW PREVENTOR SEE DETAIL11/L3.1

KEY NOTES

- 01
- CONNECT ALL VALVES TO CONTROLLER
- 02
- IRRIGATION PLAN FOR GENERAL CONTRACTOR REFERENCE ONLY
- 03
- PROVIDE 1" PVC SCH 40 SLEEVE

SYMBOL LEGEND

SYMBOL	DESCRIPTION	MAKE	MODEL	SIZE	NOTES
	POINT OF CONNECTION	-	-	-	-
	CONTROL VALVE	-	-	-	4
	MAIN LINE	-	-	1 1/2"	7
	LATERAL LINE	-	-	-	7
	DRIP TUBING	-	-	-	-
	PVC SLEEVE	-	-	-	1, 7
	REDUCED PRESSURE BACKFLOW PREVENTOR	FEBCO	LF825Y	1 1/2"	10
	HOSE BIB	-	-	-	-
	CONTROLLER	HUNTER	NODE-600	-	-
	WELL POWER	-	-	-	-

IRRIGATION PLAN - FOR REFERENCE ONLY
SCALE: 1/16" = 1'-0"

1



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11/06/2018



1. EQUIPMENT TO BE INSTALLED AT A MIN. OF 24" FROM ANY STRUCTURE OR HARDSCAPE
2. WHEN UNIT IS NEXT TO STRUCTURE (ie. WALL, BUILDING ETC.) MOUNT TEST COCKS ON SIDE AWAY FROM STRUCTURE.
3. PROVIDE OWNER W/COMPLETE WRITTEN INSTRUCTIONS ON HOW TO DRAIN ENTIRE BACKFLOW UNIT TO PREVENT FREEZING.

REDUCED PRESSURE BACKFLOW PREVENTER



HOSE BIB



TRENCHING



AUTOMATIC VALVE



TREE PLANTING & STAKING



HOSE HANGERS